

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 28 PATDPAFULL - New display fields provide for legal status
data from INPADOC
NEWS 4 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 5 MAR 02 GBFULL: New full-text patent database on STN
NEWS 6 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 9 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 10 MAR 22 PATDPASPC - New patent database available
NEWS 11 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 12 APR 04 EPFULL enhanced with additional patent information and new
fields
NEWS 13 APR 04 EMBASE - Database reloaded and enhanced
NEWS 14 APR 18 New CAS Information Use Policies available online
NEWS 15 APR 25 Patent searching, including current-awareness alerts (SDIs),
based on application date in CA/CAPLUS and USPATFULL/USPAT2
may be affected by a change in filing date for U.S.
applications.
NEWS 16 APR 28 Improved searching of U.S. Patent Classifications for
U.S. patent records in CA/CAPLUS
NEWS 17 MAY 23 GBFULL enhanced with patent drawing images
NEWS 18 MAY 23 REGISTRY has been enhanced with source information from
CHEMCATS
NEWS 19 JUN 06 The Analysis Edition of STN Express with Discover!
(Version 8.0 for Windows) now available
NEWS 20 JUN 13 RUSSIAPAT: New full-text patent database on STN
NEWS 21 JUN 13 FRFULL enhanced with patent drawing images
NEWS 22 JUN 27 MARPAT displays enhanced with expanded G-group definitions
and text labels
NEWS 23 JUL 01 MEDICONF removed from STN
NEWS 24 JUL 07 STN Patent Forums to be held in July 2005
NEWS 25 JUL 13 SCISEARCH reloaded
NEWS 26 JUL 20 Powerful new interactive analysis and visualization software,
STN AnaVist, now available
NEWS 27 AUG 11 Derwent World Patents Index(R) web-based training during
August
NEWS 28 AUG 11 STN AnaVist workshops to be held in North America

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

08/29/2005 10768294.trn

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:21:44 ON 29 AUG 2005

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:22:03 ON 29 AUG 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 AUG 2005 HIGHEST RN 861926-07-0

DICTIONARY FILE UPDATES: 28 AUG 2005 HIGHEST RN 861926-07-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *

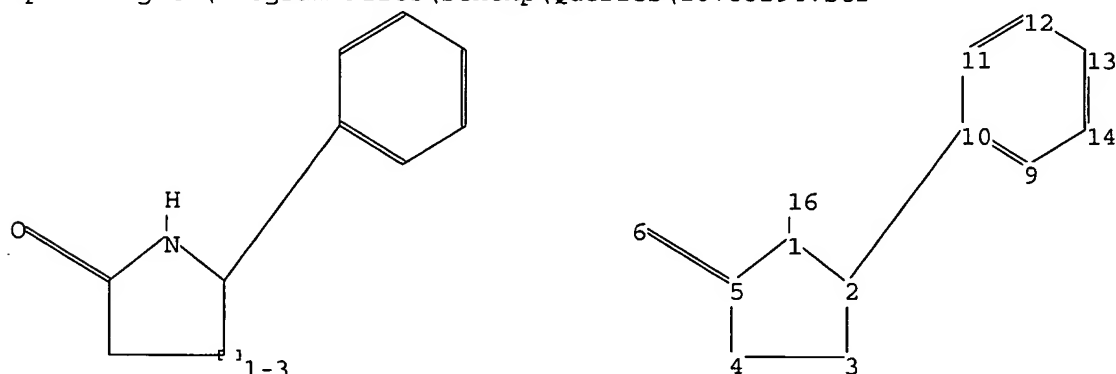
* effective March 20, 2005. A new display format, IDERL, is now *
 * available and contains the CA role and document type information. *
 *

Structure search iteration limits have been increased. See HELP SLIMITS
 for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10768294.str



chain nodes :

6 16

ring nodes :

1 2 3 4 5 9 10 11 12 13 14

chain bonds :

1-16 2-10 5-6

ring bonds :

1-2 1-5 2-3 3-4 4-5 9-10 9-14 10-11 11-12 12-13 13-14

exact/norm bonds :

1-2 1-5 5-6

exact bonds :

1-16 2-3 2-10 3-4 4-5

normalized bonds :

9-10 9-14 10-11 11-12 12-13 13-14

isolated ring systems :

containing 1 : 9 :

Match level :

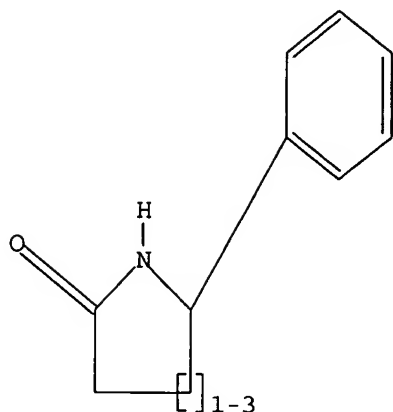
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 9:Atom 10:Atom 11:Atom 12:Atom
 13:Atom 14:Atom 16:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11
 SAMPLE SEARCH INITIATED 16:22:23 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 2641 TO ITERATE

75.7% PROCESSED 2000 ITERATIONS 33 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 49738 TO 55902
 PROJECTED ANSWERS: 475 TO 1267

L2 33 SEA SSS SAM L1

=> s 11 sss full
 FULL SEARCH INITIATED 16:22:29 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 52162 TO ITERATE

100.0% PROCESSED 52162 ITERATIONS
 SEARCH TIME: 00.00.01

962 ANSWERS

L3 962 SEA SSS FUL L1

=> FIL HCAPLUS
 COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'HCAPLUS' ENTERED AT 16:22:37 ON 29 AUG 2005
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 COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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08/29/2005 10768294.trn

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FILE COVERS 1907 - 29 Aug 2005 VOL 143 ISS 10
FILE LAST UPDATED: 28 Aug 2005 (20050828/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 394 L3

=> s 14 and pesticides

61855 PESTICIDES

L5 8 L4 AND PESTICIDES

=> s 14 and py<=1996

17466452 PY<=1996

L6 286 L4 AND PY<=1996

=> s 16 and pesticides

61855 PESTICIDES

L7 0 L6 AND PESTICIDES

=> s 16 and herbicides

62994 HERBICIDES

L8 1 L6 AND HERBICIDES

=> s 14 and herbicides

62994 HERBICIDES

L9 3 L4 AND HERBICIDES

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.15

178.69

FILE 'REGISTRY' ENTERED AT 16:26:37 ON 29 AUG 2005

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STRUCTURE FILE UPDATES: 28 AUG 2005 HIGHEST RN 861926-07-0

DICTIONARY FILE UPDATES: 28 AUG 2005 HIGHEST RN 861926-07-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

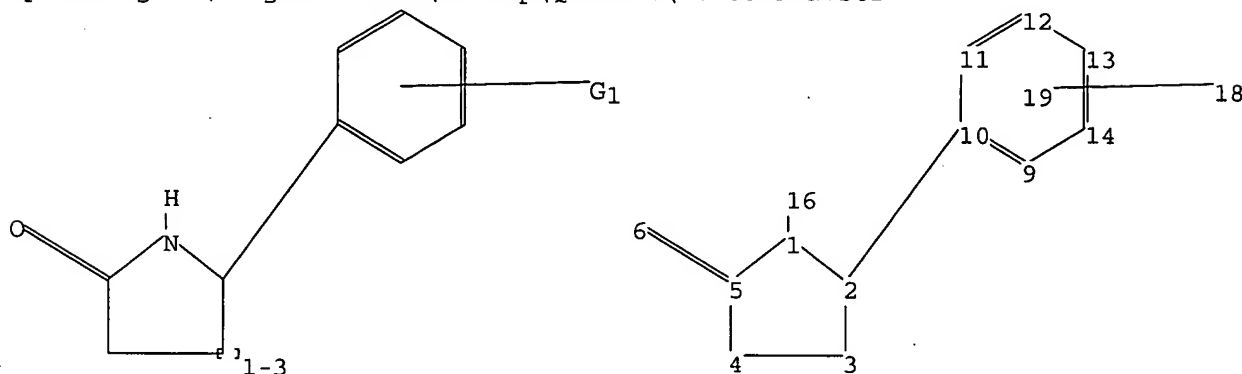
 *
 * The CA roles and document type information have been removed from *
 * the IDE default display format and the ED field has been added, *
 * effective March 20, 2005. A new display format, IDERL, is now *
 * available and contains the CA role and document type information. *
 *

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10768294a.str



chain nodes :
 6 16 18
 ring nodes :
 1 2 3 4 5 9 10 11 12 13 14
 chain bonds :
 1-16 2-10 5-6
 ring bonds :
 1-2 1-5 2-3 3-4 4-5 9-10 9-14 10-11 11-12 12-13 13-14
 exact/norm bonds :
 1-2 1-5 5-6
 exact bonds :
 1-16 2-3 2-10 3-4 4-5
 normalized bonds :
 9-10 9-14 10-11 11-12 12-13 13-14
 isolated ring systems :
 containing 1 : 9 :

G1:X,CN

Match level :

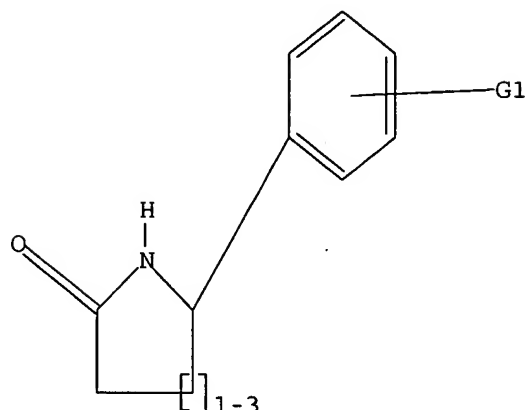
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 9:Atom 10:Atom 11:Atom 12:Atom
 13:Atom 14:Atom 16:CLASS 18:CLASS 19:CLASS

L10 STRUCTURE UPLOADED

=> d l10

L10 HAS NO ANSWERS

L10 STR



G1 X,CN

Structure attributes must be viewed using STN Express query preparation.

=> s l10

SAMPLE SEARCH INITIATED 16:26:56 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 6714 TO ITERATE

29.8% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

4 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 129368 TO 139192
PROJECTED ANSWERS: 49 TO 487

L11 4 SEA SSS SAM L10

=> s l10 sss full

FULL SEARCH INITIATED 16:27:05 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 132573 TO ITERATE

100.0% PROCESSED 132573 ITERATIONS
SEARCH TIME: 00.00.03

173 ANSWERS

L12 173 SEA SSS FUL L10

=> EIL HCAPLUS

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
161.33	340.02

FILE 'HCAPLUS' ENTERED AT 16:27:13 ON 29 AUG 2005

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FILE COVERS 1907 - 29 Aug 2005 VOL 143 ISS 10
FILE LAST UPDATED: 28 Aug 2005 (20050828/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l12
L13 60 L12
=> s l13 and py<=1996
17466452 PY<=1996
L14 32 L13 AND PY<=1996
=> s l14 and pesticides
2 PESTCIDES
L15 0 L14 AND PESTCIDES
=> s l14 and herbicides
62994 HERBICIDES
L16 1 L14 AND HERBICIDES
=> d his

(FILE 'HOME' ENTERED AT 16:21:44 ON 29 AUG 2005)

FILE 'REGISTRY' ENTERED AT 16:22:03 ON 29 AUG 2005

L1 STRUCTURE UPLOADED
L2 33 S L1
L3 962 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 16:22:37 ON 29 AUG 2005

L4 394 S L3
L5 8 S L4 AND PESTICIDES
L6 286 S L4 AND PY<=1996
L7 0 S L6 AND PESTICIDES
L8 1 S L6 AND HERBICIDES
L9 3 S L4 AND HERBICIDES

FILE 'REGISTRY' ENTERED AT 16:26:37 ON 29 AUG 2005

L10 STRUCTURE UPLOADED
L11 4 S L10
L12 173 S L10 SSS FULL

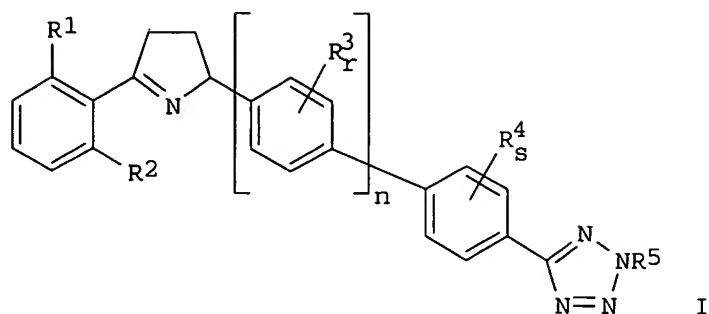
FILE 'HCAPLUS' ENTERED AT 16:27:13 ON 29 AUG 2005

L13 60 S L12
L14 32 S L13 AND PY<=1996
L15 0 S L14 AND PESTICIDES
L16 1 S L14 AND HERBICIDES

=> d 15 ibib abs hitstr tot

L5 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:733857 HCAPLUS
DOCUMENT NUMBER: 137:263039
TITLE: Preparation of pyrrolyl(bi)phenyl-2H-tetrazoles as
pesticides
INVENTOR(S): Plant, Andrew; Maurer, Fritz; Marhold, Albrecht;
Brdelen, Christoph; Turberg, Andreas; Hansen, Olaf
PATENT ASSIGNEE(S): Bayer AG, Germany
SOURCE: Ger. Offen., 36 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10113965	A1	20020926	DE 2001-10113965	20010322
CA 2441334	AA	20021003	CA 2002-2441334	20020312
WO 2002076978	A1	20021003	WO 2002-EP2684	20020312
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1379521	A1	20040114	EP 2002-72207	20020312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002008295	A	20040413	BR 2002-8295	20020312
CN 1509284	A	20040630	CN 2002-809773	20020312
JP 2004529131	T2	20040924	JP 2002-576236	20020312
US 2004152904	A1	20040805	US 2003-472270	20031212
PRIORITY APPLN. INFO.:			DE 2001-10113965	A 20010322
			WO 2002-EP2684	W 20020312
OTHER SOURCE(S):			MARPAT 137:263039	
GI				



AB Title compds. [I; R1 = halo, Me; R2 = H, halo; R3, R4 = halo, (substituted) alkyl, alkoxy; R5 = H, alkylcarbonyl, (substituted) alkyl, alkylsulfonyl, cycloalkyl; n = 0, 1; r, s = 0-2], were prepared Thus, a mixture of 2-(4-bromophenyl)-5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrole, 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bi-1,3,2-dioxaborolan, KOAc, and PdCl2dppf was heated with DMF under Ar-atmospheric followed by cooling and addition

of 2-ethyl-5-(4-bromophenyl)-2H-tetrazole (preparation given) to give, after 16 h stirring at 80°, 62% 5-(4'-[5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrol-2-yl]-1,1'-biphenyl-4-yl)-2-ethyl-2H-tetrazole. The latter was said to kill of *Heliothis virescens*-caterpillars on *Glycine max* with a good efficiency.

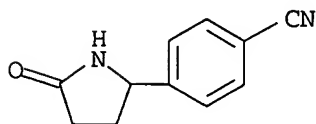
IT 339087-31-9P 461440-97-1P 461440-98-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrrolyl(bi)phenyl-2H-tetrazoles as **pesticides**)

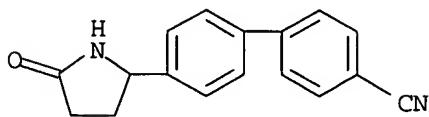
RN 339087-31-9 HCAPLUS

CN Benzonitrile, 4-(5-oxo-2-pyrrolidinyl)- (9CI) (CA INDEX NAME)



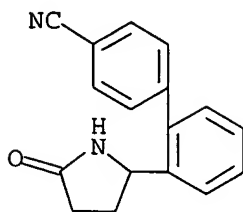
RN 461440-97-1 HCAPLUS

CN [1,1'-Biphenyl]-4-carbonitrile, 4'-(5-oxo-2-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 461440-98-2 HCAPLUS

CN [1,1'-Biphenyl]-4-carbonitrile, 2'-(5-oxo-2-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2005 ACS or STN

ACCESSION NUMBER: 2002:240724 HCAPLUS

DOCUMENT NUMBER: 136:263092

TITLE: Preparation of 3,4-dihydropyrroles as
pesticidesINVENTOR(S): Plant, Andrew; Marhold, Albrecht; Grosser, Rolf;
Erdelen, Christoph; Turberg, Andreas; Hansen, Olaf

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

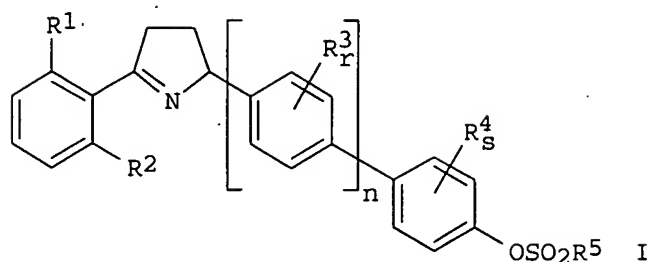
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024644	A1	20020328	WO 2001-EP10430	20010910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10051395	A1	20020411	DE 2000-10051395	20001017
AU 2001087722	A5	20020402	AU 2001-87722	20010910
EP 1322604	A1	20030702	EP 2001-967323	20010910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001014096	A	20030819	BR 2001-14096	20010910
JP 2004509864	T2	20040402	JP 2002-529057	20010910
US 2003220386	A1	20031127	US 2003-380728	20030609
PRIORITY APPLN. INFO.:			DE 2000-10047119	A 20000922
			DE 2000-10051395	A 20001017
			WO 2001-EP10430	W 20010910

OTHER SOURCE(S): MARPAT 136:263092

GI



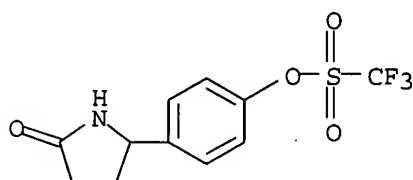
AB Title compds. [I; n = 0, 1; r, s = 0-2; R1 = halo, Me; R2 = H, halo; R3, R4 = halo, (halo)alkyl, (halo)alkoxy; R5 = (halo)alkyl, (substituted) Ph, NR6R7; R6 = (halo)alkyl; R7 = H, (halo)alkyl, R6R7 = (alkoxy)alkylene] were prepared. Thus, 4-[5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrol-2-yl]phenol in PhMe was treated with 45% NaOH and 4-(trifluoromethoxy)benzenesulfonyl chloride, followed by stirring for 12 h at 45°, to give 70% 5-(2,6-difluorophenyl)-2-(4-[4-(trifluoromethoxy)phenyl]sulfonyloxyphenyl)-3,4-dihydro-2H-pyrrole. Several I at 100-200 ppm gave 90-95% kill of *Aphis gossypii* on *Gossypium hirsutum* after 6 days.

IT 207989-88-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of dihydropyrroles as pesticides)

RN 207989-88-6 HCAPLUS

CN Methanesulfonic acid, trifluoro-, 4-(5-oxo-2-pyrrolidinyl)phenyl ester (9CI) (CA INDEX NAME)



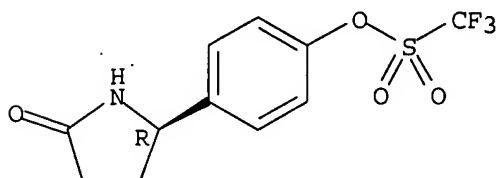
IT 405201-81-2P 405201-84-5P 405201-86-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dihydropyrroles as pesticides)

RN 405201-81-2 HCAPLUS

CN Methanesulfonic acid, trifluoro-, 4-[(2R)-5-oxo-2-pyrrolidinyl]phenyl ester (9CI) (CA INDEX NAME)

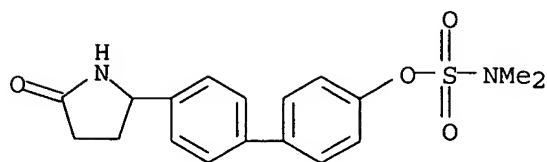
Absolute stereochemistry. Rotation (+).



RN 405201-84-5 HCAPLUS

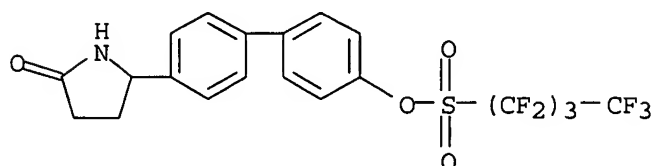
CN Sulfamic acid, dimethyl-, 4'-(5-oxo-2-pyrrolidinyl)[1,1'-biphenyl]-4-yl

ester (9CI) (CA INDEX NAME)



RN 405201-86-7 HCAPLUS

CN 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 4'-(5-oxo-2-pyrrolidinyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:240723 HCAPLUS

DOCUMENT NUMBER: 136:279329

TITLE: Preparation of optically active 2,5-diaryl-3,4-dihydropyrroles as pesticides

INVENTOR(S): Plant, Andrew; Geller, Thomas; Gallenkamp, Bernd; Grosser, Rolf; Marhold, Albrecht; Erdelen, Christoph; Turberg, Andreas; Hansen, Olaf

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 129 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

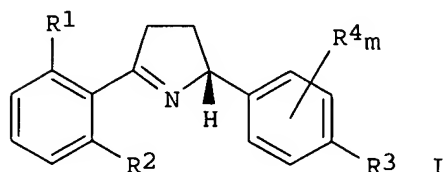
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024643	A1	20020328	WO 2001-EP10424	20010910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10047110	A1	20020418	DE 2000-10047110	20000922
AU 2002013897	A5	20020402	AU 2002-13897	20010910
CA 2422958	AA	20030319	CA 2001-2422958	20010910
BR 2001014062	A	20030701	BR 2001-14062	20010910

EP 1322607	A1	20030702	EP 2001-982267	20010910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004509166	T2	20040325	JP 2002-529056	20010910
NZ 524813	A	20040924	NZ 2001-524813	20010910
EG 23084	A	20040331	EG 2001-997	20010918
US 2004059129	A1	20040325	US 2003-380433	20030728
PRIORITY APPLN. INFO.:			DE 2000-10047110	A 20000922
OTHER SOURCE(S):			WO 2001-EP10424	W 20010910
GI			MARPAT 136:279329	



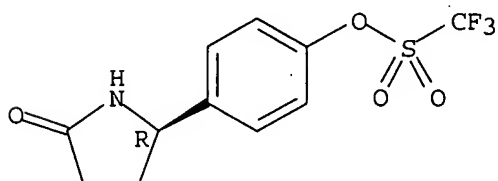
AB Title compds. [I; * = C with (R) configuration; m = 0-4; R1 = halo, Me; R2 = H, halo; R3 = H, halo, OH, (halo)alkyl, (halo)alkenyl, alkynyl, alkoxy, S(O)OR6, etc.; R4 = halo, (halo)alkyl, (halo)alkoxy, S(O)OR6; o = 0-2; R6 = H, (halo)alkyl], were prepared. Thus, (+/-)-5-(2,6-difluorophenyl)-2-[4'-(trifluoromethoxy)-1,1'-biphenyl-4-yl]-3,4-dihydro-2H-pyrrole in n-heptanol/isopropanol was fractionally chromatographed with silica gel Chiralcel OD by HPLC to give 87.3% (2R)-5-(2,6-difluorophenyl)-2-[4'-(trifluoromethoxy)-1,1'-biphenyl-4-yl]-3,4-dihydro-2H-pyrrole (ee = 99.5%). The latter at 8 ppm gave 100% kill of *Heliothis armigera* after 6 days.

IT 405201-81-2P 405522-16-9P 405522-18-1P
405522-25-0P 405522-26-1P 405522-27-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of optically active diaryldihydropyrroles as **pesticides**)

RN 405201-81-2 HCAPLUS

CN Methanesulfonic acid, trifluoro-, 4-[(2R)-5-oxo-2-pyrrolidinyl]phenyl ester (9CI) (CA INDEX NAME)

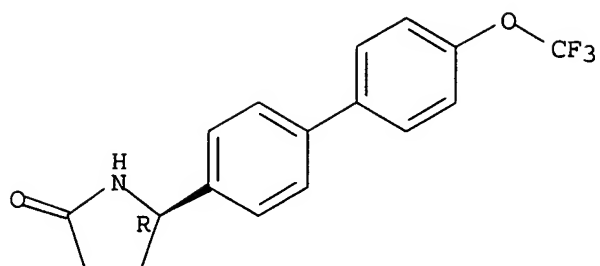
Absolute stereochemistry. Rotation (+).



RN 405522-16-9 HCAPLUS

CN 2-Pyrrolidinone, 5-[4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]-, (5R)- (9CI) (CA INDEX NAME)

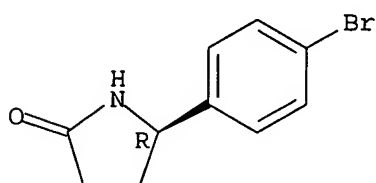
Absolute stereochemistry. Rotation (+).



RN 405522-18-1 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)-, (5R)- (9CI) (CA INDEX NAME)

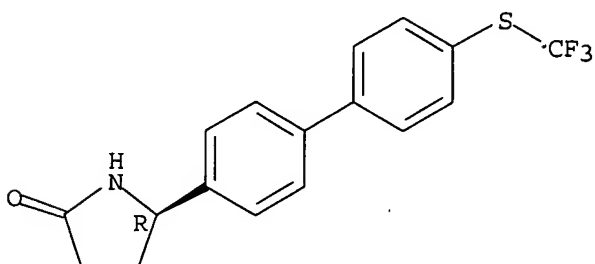
Absolute stereochemistry. Rotation (+).



RN 405522-25-0 HCAPLUS

CN 2-Pyrrolidinone, 5-[4'-[(trifluoromethyl)thio][1,1'-biphenyl]-4-yl]-, (5R)- (9CI) (CA INDEX NAME)

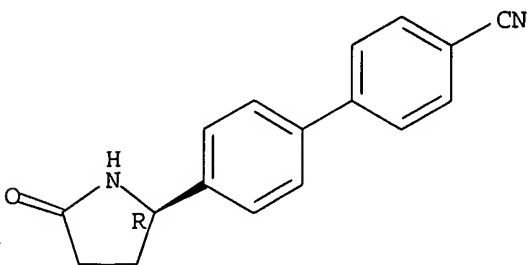
Absolute stereochemistry. Rotation (+).



RN 405522-26-1 HCAPLUS

CN [1,1'-Biphenyl]-4-carbonitrile, 4'--[(2R)-5-oxo-2-pyrrolidinyl]- (9CI) (CA INDEX NAME)

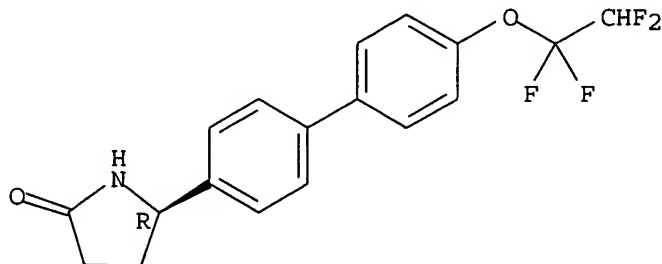
Absolute stereochemistry. Rotation (+).



RN 405522-27-2 HCAPLUS

CN 2-Pyrrolidinone, 5-[4'-(1,1,2,2-tetrafluoroethoxy)[1,1'-biphenyl]-4-yl]-, (5R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:335381 HCAPLUS

DOCUMENT NUMBER: 132:334360

TITLE: Preparation of phenyl-substituted cyclic enaminones as herbicides and pesticides.

INVENTOR(S): Fischer, Reiner; Wischnat, Ralf; Drewes, Mark Wilhelm; Dollinger, Markus; Erdelen, Christoph; Feucht, Dieter; Wetcholowsky, Ingo; Wachendorff-Neumann, Ulrike; Philipp, Ulrich; Raue, Olga-Tatjana

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 143 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

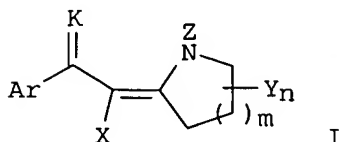
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027812	A1	20000518	WO 1999-EP8366	19991102
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19851986	A1	20000518	DE 1998-19851986	19981111
CA 2350305	AA	20000518	CA 1999-2350305	19991102
BR 9915260	A	20010807	BR 1999-15260	19991102
EP 1129071	A1	20010905	EP 1999-955944	19991102
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002529450	T2	20020910	JP 2000-580992	19991102
AU 770205	B2	20040219	AU 2000-12688	19991102
US 6455472	B1	20020924	US 2001-831261	20010716
US 2003130125	A1	20030710	US 2002-206426	20020726

PRIORITY APPLN. INFO.:

DE 1998-19851986	A 19981111
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WO 1999-EP8366	W 19991102
US 2001-831261	A3 20010716

OTHER SOURCE(S): MARPAT 132:334360
GI



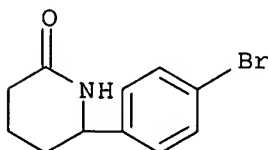
AB Title compds. [I; K = O, S; Ar = (substituted) Ph, naphthyl, mono- or bicyclic heteroaryl; X = cyano, CONR1R2, CSNH2; Y = halo, (substituted) alkyl, alkoxy, Ph, phenylalkyl, heteroaryl, CO2R1, CONR1R2, etc.; Z = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, phenoxyalkyl, phenylthioalkyl, etc.; R1 = H, (substituted) (unsatd.) (heteroatom-interrupted) alkyl, cycloalkyl, Ph, heteroaryl; R2 = H, (substituted) (unsatd.) alkyl, alkoxy, Ph, phenylalkyl, phenylalkoxy; m = 1-3; n = 0-4], were prepared. Thus, 2-ethoxypyrroline and 4-chlorobenzoylacetonitrile were heated in PhMe with azeotropic removal of EtOH to give 74% 3-(4-chlorophenyl)-3-oxo-2-pyrrolidin-2-ylidenepropionitrile. Several I were active against *Phaedon cochleariae* on cabbage leaves.

IT 267880-78-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of phenyl-substituted cyclic enaminones as herbicides and pesticides)

RN 267880-78-4 HCAPLUS

CN 2-Piperidinone, 6-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:260281 HCAPLUS

DOCUMENT NUMBER: 132:279107

TITLE: Preparation of 5-aryl-2-heteroaryl-3,4-dihydro-2H-pyrroles as pesticides.

INVENTOR(S): Plant, Andrew; Alig, Bernd; Graff, Alan; Kraatz, Udo; Kramer, Wolfgang; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 239 pp.

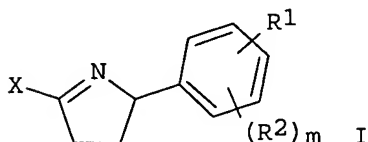
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021958	A1	20000420	WO 1999-EP7295	19991001
W: AE, AL, AM, AT, AU, AZ , BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19847076	A1	20000420	DE 1998-19847076	19981014
AU 9961988	A1	20000501	AU 1999-61988	19991001
AU 761113	B2	20030529		
EP 1121357	A1	20010808	EP 1999-948915	19991001
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9915544	A	20010814	BR 1999-15544	19991001
JP 2002527437	T2	20020827	JP 2000-575864	19991001
US 6599924	B1	20030729	US 2001-807136	20010405
PRIORITY APPLN. INFO.:			DE 1998-19847076	A 19981014
			WO 1999-EP7295	W 19991001
OTHER SOURCE(S):			MARPAT 132:279107	
GI				



AB Title compds. [I; X = (substituted) 5-10 membered mono- or bicyclic heterocyclyl; R1 = halo, XA, BZD, YE; m = 0-4; R2 = H, halo, cyano, NO2, alkyl, alkoxy, haloalkyl, haloalkoxy, alkoxyalkoxy, SR3, SOR3, SO2R3; R3 = alkyl, haloalkyl; X = bond, O, S, CO, CO2, etc.; A = (substituted) Ph, naphthyl, tetrahydronaphthyl, 5-10 membered heterocyclyl; B = (substituted) p-phenylene; Z = O, S; D = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, (substituted) cycloalkyl, cycloalkenyl, phenylalkyl, etc.; ZD = (substituted) phenoxyalkyl; Y = bond, O, S, CO, CO2, alkylene, alkenylene, alkynylene, etc.; E = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, (substituted) cycloalkenyl, Ph, 5-6 membered heteroaryl], were prepared Thus, furan in THF at -30° was treated with BuLi and then with a solution of N-tert-butoxycarbonyl-γ-(4'-trifluoromethoxybiphen-4-yl)-γ-butyrolactam (preparation given) in THF followed by 2 h stirring at -20° and stirring overnight at room temperature to give 86% BOC-protected aminoketone, which was stirred overnight with CF3CO2H to give 86% 2-(2-furyl)-5-(4'-trifluoromethoxybiphen-4-yl)-3,4-dihydro-2H-pyrrole. Tested I at 0.1% on bean plants gave ≥95% kill of organophosphate-resistant Tetranychus urticae.

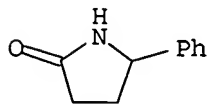
IT 22050-10-8P 25097-93-2P 207989-87-5P
207989-88-6P 207989-89-7P 207989-90-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of 5-aryl-2-heteroaryl-3,4-dihydro-2H-pyrroles as pesticides)

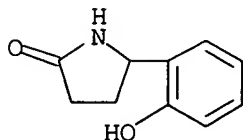
RN 22050-10-8 HCAPLUS

CN 2-Pyrrolidinone, 5-phenyl- (8CI, 9CI) (CA INDEX NAME)



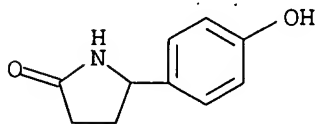
RN 25097-93-2 HCAPLUS

CN 2-Pyrrolidinone, 5-(2-hydroxyphenyl)- (9CI) (CA INDEX NAME)



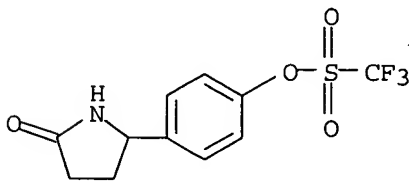
RN 207989-87-5 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



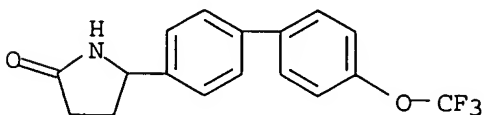
RN 207989-88-6 HCAPLUS

CN Methanesulfonic acid, trifluoro-, 4-(5-oxo-2-pyrrolidinyl)phenyl ester (9CI) (CA INDEX NAME)



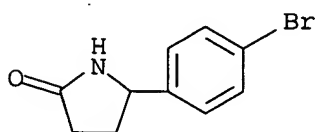
RN 207989-89-7 HCAPLUS

CN 2-Pyrrolidinone, 5-[4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



RN 207989-90-0 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:753208 HCAPLUS

DOCUMENT NUMBER: 131:351232

TITLE: Preparation of 5-aryl-2-(2-chlorophenyl)-3,4-dihydro-2H-pyrroles as pesticides.

INVENTOR(S): Plant, Andrew; Graff, Alan; Kraatz, Udo; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: PCT Int. Appl., 159 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

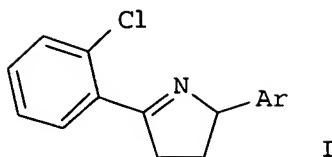
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9959968	A1	19991125	WO 1999-EP3063	19990505
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19822247	A1	19991125	DE 1998-19822247	19980518
CA 2332723	AA	19991125	CA 1999-2332723	19990505
AU 9941384	A1	19991206	AU 1999-41384	19990505
AU 747396	B2	20020516		
BR 9910539	A	20010116	BR 1999-10539	19990505
TR 200003389	T2	20010221	TR 2000-200003389	19990505
EP 1080072	A1	20010307	EP 1999-924878	19990505
EP 1080072	B1	20040804		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
JP 2002515483	T2	20020528	JP 2000-549587	19990505
AT 272622	E	20040815	AT 1999-924878	19990505
ES 2224666	T3	20050301	ES 1999-924878	19990505
US 6489490	B1	20021203	US 2000-700289	20001113
PRIORITY APPLN. INFO.:			DE 1998-19822247	A 19980518
			WO 1999-EP3063	W 19990505

OTHER SOURCE(S): MARPAT 131:351232

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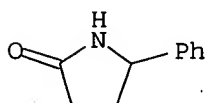
AB Title compds. (I; Ar = substituted Ph), were prepared Thus,
 2-(2-chlorophenyl)-5-(4-bromophenyl)-3,4-dihydro-2H-pyrrole (preparation given)
 was stirred with 4-trifluoromethoxyphenylboronic acid, K₂CO₃, and
 Pd(PPh₃)₂Cl₂ in dimethoxyethane/H₂O to give 11.2% 2-(2-chlorophenyl)-5-(4-
 trifluoromethoxy-4,4'-biphenyl-1-yl)-3,4-dihydro-2H-pyrrole. The latter
 at 0.004% on soybeans gave 100% kill of *Heliothis armigera*.

IT 22050-10-8P 25097-93-2P 207989-87-5P
 207989-88-6P 207989-89-7P 207989-90-0P
 250671-49-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of 5-aryl-2-(2-chlorophenyl)-3,4-dihydro-2H-pyrroles as
pesticides)

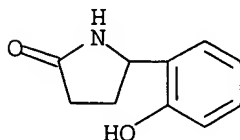
RN 22050-10-8 HCAPLUS

CN 2-Pyrrolidinone, 5-phenyl- (8CI, 9CI) (CA INDEX NAME)



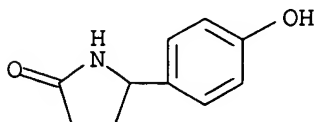
RN 25097-93-2 HCAPLUS

CN 2-Pyrrolidinone, 5-(2-hydroxyphenyl)- (9CI) (CA INDEX NAME)



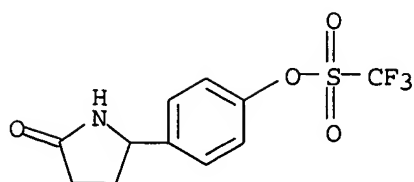
RN 207989-87-5 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

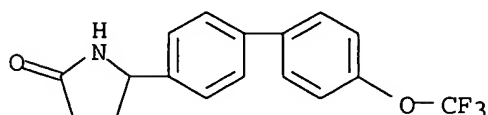


RN 207989-88-6 HCAPLUS

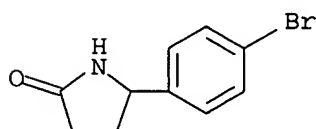
CN Methanesulfonic acid, trifluoro-, 4-(5-oxo-2-pyrrolidinyl)phenyl ester
 (9CI) (CA INDEX NAME)



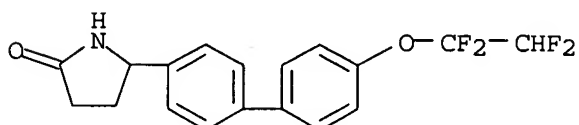
RN 207989-89-7 HCAPLUS
CN 2-Pyrrolidinone, 5-[4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



RN 207989-90-0 HCAPLUS
CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



RN 250671-49-9 HCAPLUS
CN 2-Pyrrolidinone, 5-[4'-(1,1,2,2-tetrafluoroethoxy)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)

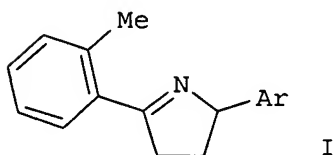


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:753207 HCAPLUS
DOCUMENT NUMBER: 131:351231
TITLE: Preparation of 2-(2-methylphenyl)-5-aryl-3,4-dihydro-2H-pyrroles as pesticides.
INVENTOR(S): Plant, Andrew; Backhaus, Dirk; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9959967	A1	19991125	WO 1999-EP3062	19990505
W: AE, AL, AM, AT, AU, AZ , BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19822245	A1	19991125	DE 1998-19822245	19980518
CA 2332522	AA	19991125	CA 1999-2332522	19990505
AU 9940369	A1	19991206	AU 1999-40369	19990505
AU 742032	B2	20011213		
BR 9910540	A	20010130	BR 1999-10540	19990505
EP 1077938	A1	20010228	EP 1999-923526	19990505
EP 1077938	B1	20050413		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
TR 200003390	T2	20010321	TR 2000-200003390	19990505
JP 2002515482	T2	20020528	JP 2000-549586	19990505
AT 293099	E	20050415	AT 1999-923526	19990505
US 6632833	B1	20031014	US 2000-700288	20001113
PRIORITY APPLN. INFO.:				
DE 1998-19822245 A 19980518				
WO 1999-EP3062 W 19990505				
OTHER SOURCE(S): MARPAT 131:351231				
GI				



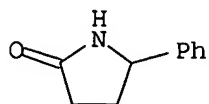
AB Title compds. [I; Ar = (substituted) Ph], were prepared Thus, 1-tert-butoxycarbonylamino-1-[4'-trifluoromethoxybiphenyl-4-yl]-3-[O-methylbenzoyl]propane (preparation given) in CH₂Cl₂ was treated with CF₃CO₂H to give 93.1% 2-(2-methylphenyl)-5-[4'-trifluoromethoxybiphen-4-yl]-3,4-dihydro-2H-pyrrole. The latter at 0.004% on cabbage leaves gave 100% kill of *Plutella xylostella* after 6 days.

IT 22050-10-8P 25097-93-2P 207989-87-5P
207989-88-6P 207989-89-7P 207989-90-0P
250671-49-9P

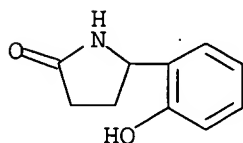
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 2-(2-methylphenyl)-5-aryl-3,4-dihydro-2H-pyrroles as pesticides)

RN 22050-10-8 HCAPLUS

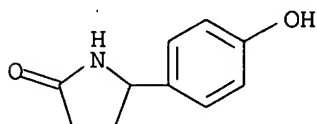
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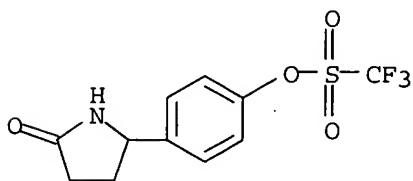
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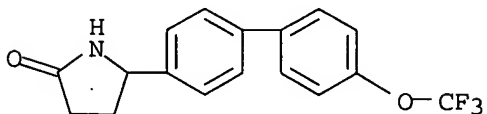
RN 207989-87-5 HCAPLUS
CN 2-Pyrrolidinone, 5-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



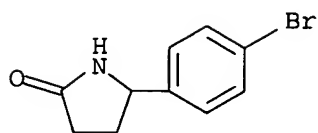
RN 207989-88-6 HCAPLUS
CN Methanesulfonic acid, trifluoro-, 4-(5-oxo-2-pyrrolidinyl)phenyl ester
(9CI) (CA INDEX NAME)



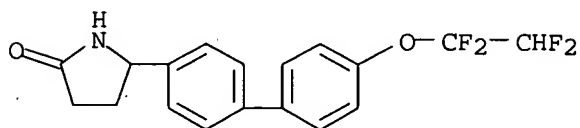
RN 207989-89-7 HCAPLUS
CN 2-Pyrrolidinone, 5-[4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



RN 207989-90-0 HCAPLUS
CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



RN 250671-49-9 HCAPLUS
 CN 2-Pyrrolidinone, 5-[4'-(1,1,2,2-tetrafluoroethoxy) [1,1'-biphenyl]-4-yl]-
 (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:352816 HCAPLUS

DOCUMENT NUMBER: 129:27884

TITLE: Preparation of aryl-substituted cyclic imines as
 pesticides.

INVENTOR(S): Plant, Andrew; Kleefeld, Gerd; Potter, Thorsten;
 Erdelen, Christoph; Mencke, Norbert; Turberg, Andreas;
 Wachendorff-Neumann, Ulrike

PATENT ASSIGNEE(S): Bayer A.-G., Germany; Plant, Andrew; Kleefeld, Gerd;
 Potter, Thorsten; Erdelen, Christoph; Mencke, Norbert;
 Turberg, Andreas; Wachendorff-Neumann, Ulrike

SOURCE: PCT Int. Appl., 128 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

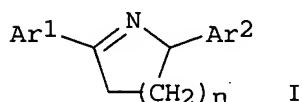
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9822438	A1	19980528	WO 1997-EP6186	19971107
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 19648011	A1	19980528	DE 1996-19648011	19961120
AU 9853197	A1	19980610	AU 1998-53197	19971107
AU 737059	B2	20010809		
EP 942901	A1	19990922	EP 1997-950138	19971107
EP 942901	B1	20030305		
R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT				
CN 1244860	A	20000216	CN 1997-181458	19971107

BR 9713520	A	20000321	BR 1997-13520	19971107
NZ 335798	A	20001027	NZ 1997-335798	19971107
JP 2001506592	T2	20010522	JP 1998-523151	19971107
EP 1306371	A1	20030502	EP 2003-371	19971107
R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT				
PT 942901	T	20030731	PT 1997-950138	19971107
ES 2190803	T3	20030816	ES 1997-950138	19971107
IL 129857	A1	20040219	IL 1997-129857	19971107
TW 572730	B	20040121	TW 1997-86117105	19971117
KR 2000053185	A	20000825	KR 1999-704146	19990510
US 6274613	B1	20010814	US 1999-297964	19990511
US 6399771	B1	20020604	US 2000-659041	20000909
US 2002151571	A1	20021017	US 2001-28648	20011219
US 6770595	B2	20040803		
US 2004186287	A1	20040923	US 2004-768294	20040130
PRIORITY APPLN. INFO.:			DE 1996-19648011	A 19961120
			EP 1997-950138	A3 19971107
			WO 1997-EP6186	W 19971107
			US 1999-297964	A3 19990511
			US 2000-659041	A3 20000909
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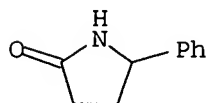
OTHER SOURCE(S): MARPAT 129:27884
GI



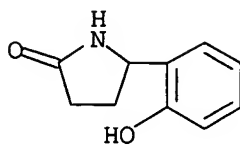
AB Title compds. (I; Ar1, Ar2 = (substituted) Ph; n = 1, 2, 3), were prepared
Thus, 1-tert-butoxycarbonylamino-3-(2,6-difluorobenzoyl)-1-phenylpropane
(preparation given) was treated with CF₃CO₂H at 0° to room temperature to give
83% 2-(2,6-difluorophenyl)-5-phenyl-3,4-dihydro-2H-pyrrole. The latter at
0.1% gave 90% kill of Myzus persicae on cabbage leaves.

IT 22050-10-8P 25097-93-2P 207989-87-5P
207989-88-6P 207989-89-7P 207989-90-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of aryl-substituted cyclic imines as **pesticides**)

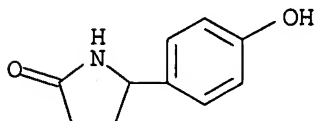
RN 22050-10-8 HCAPLUS
CN 2-Pyrrolidinone, 5-phenyl- (8CI, 9CI) (CA INDEX NAME)



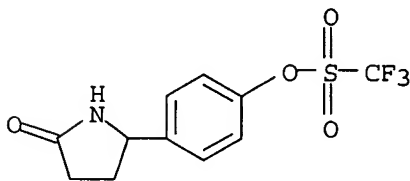
RN 25097-93-2 HCAPLUS
CN 2-Pyrrolidinone, 5-(2-hydroxyphenyl)- (9CI) (CA INDEX NAME)



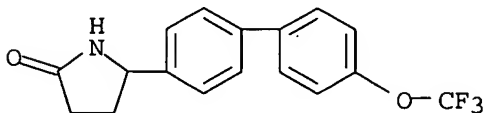
RN 207989-87-5 HCAPLUS
CN 2-Pyrrolidinone, 5-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



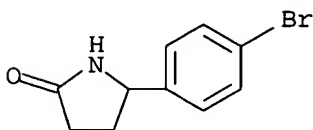
RN 207989-88-6 HCAPLUS
CN Methanesulfonic acid, trifluoro-, 4-(5-oxo-2-pyrrolidinyl)phenyl ester
(9CI) (CA INDEX NAME)



RN 207989-89-7 HCAPLUS
CN 2-Pyrrolidinone, 5-[4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



RN 207989-90-0 HCAPLUS
CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:38898 HCAPLUS

DOCUMENT NUMBER: 110:38898

TITLE: Preparation of benzoylpiperidinediones and other cyclic diones as **herbicides**

INVENTOR(S): Geach, Neil Jonathan; Gilmour, James; Hatton, Leslie Roy; Smith, Philip Henry Gaunt

PATENT ASSIGNEE(S): May and Baker Ltd., UK

SOURCE: Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

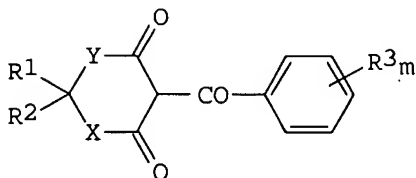
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 278742	A2	19880817	EP 1988-301103	19880210 <--
EP 278742	A3	19891115		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FI 8800591	A	19880812	FI 1988-591	19880209 <--
AU 8811454	A1	19880818	AU 1988-11454	19880209 <--
AU 607183	B2	19910228		
ZA 8800911	A	19900131	ZA 1988-911	19880209 <--
DK 8800680	A	19880812	DK 1988-680	19880210 <--
JP 63203644	A2	19880823	JP 1988-29989	19880210 <--
HU 48092	A2	19890529	HU 1988-607	19880210 <--
HU 203941	B	19911128		
CS 273340	B2	19910312	CS 1988-839	19880210 <--
RO 100664	B1	19921120	RO 1988-132128	19880210 <--
BR 8800580	A	19880927	BR 1988-580	19880211 <--
DD 282005	A5	19900829	DD 1988-312844	19880211 <--
US 5114461	A	19920519	US 1989-440208	19891122 <--
AU 9066910	A1	19910627	AU 1990-66910	19901123 <--
PRIORITY APPLN. INFO.:			GB 1987-3068	A 19870211
			GB 1987-7608	A 19870331
			US 1988-154031	B1 19880209

OTHER SOURCE(S): MARPAT 110:38898

GI



I

AB Title compds. I [X = CH₂, O, S, R₄N; R₄ = H, C1-6 alkyl, C2-7 alkoxy carbonyl; Y = CH₂, O, R₅R₆N; R₅ = H, C1-6 alkyl, C2-7 alkoxy carbonyl; R₆ = H, C1-6 alkyl; R₁ = H; (un)substituted C1-6 alkyl, C3-6 cycloalkyl; R₂ = H, R₁R₂ = C2-6 alkylene, etc.; R₃ = halo, HO, H₂OC, O₂N, cyano, H₂N, [(un)substituted C1-6 alkyl]carbonyl, etc.; m = 0-5], or an agriculturally acceptable salt thereof, were prepared

2,4-(O₂N)C1C6H3COCl in CH₂Cl₂ was added at 5-10° to 6,6-dimethylpiperidine-2,4-dione and Et₃N in CH₂Cl₂, the mixture stirred at ambient temperature for 18 h, Et₃N and Me₂COHCN were added successively, and the

mixture stirred at ambient temperature to give I (R1, R2 = Me; R3m = 2-NO2, 4-Cl;

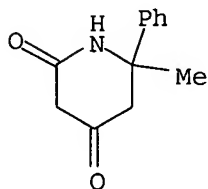
X = NH; Y = CH2) (II). In preemergence test, II at 2000 g/ha gave 100% control of Chenopodium album.

IT 118263-98-2 118264-04-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(benzoylation of)

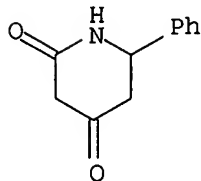
RN 118263-98-2 HCAPLUS

CN 2,4-Piperidinedione, 6-methyl-6-phenyl- (9CI) (CA INDEX NAME)



RN 118264-04-3 HCAPLUS

CN 2,4-Piperidinedione, 6-phenyl- (9CI) (CA INDEX NAME)

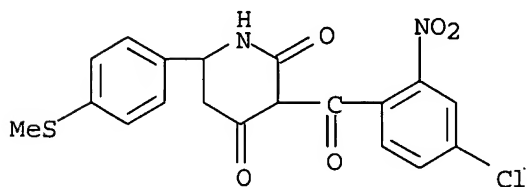


IT 118263-49-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of)

RN 118263-49-3 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



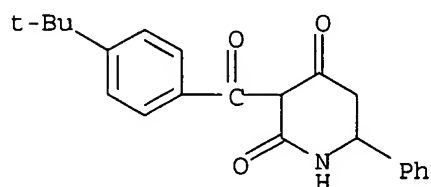
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118262-44-5P 118262-45-6P 118262-46-7P
118262-47-8P 118262-48-9P 118262-49-0P
118262-50-3P 118262-51-4P 118262-52-5P
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118263-66-4P 118263-67-5P 118263-68-6P
118263-69-7P 118263-70-0P 118263-71-1P
118264-33-8P 118272-20-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)

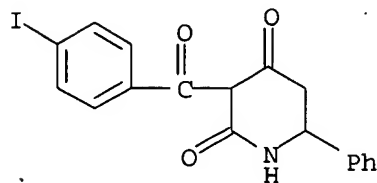
RN 118262-34-3 HCAPLUS

CN 2,4-Piperidinedione, 3-[4-(1,1-dimethylethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



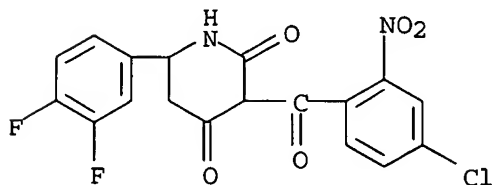
RN 118262-35-4 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-iodobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



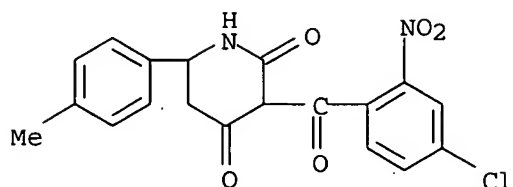
RN 118262-36-5 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(3,4-difluorophenyl)- (9CI) (CA INDEX NAME)

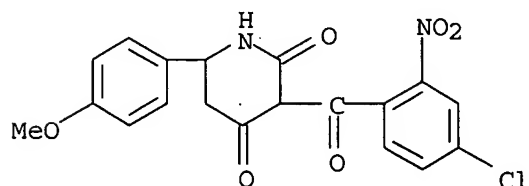


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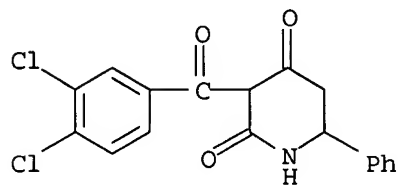
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(4-methylphenyl)- (9CI)
(CA INDEX NAME)



RN 118262-38-7 HCAPLUS

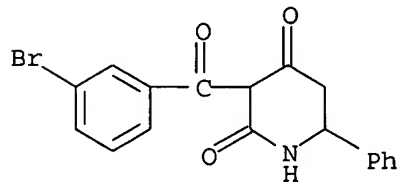
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(4-methoxyphenyl)-
(9CI) (CA INDEX NAME)

RN 118262-40-1 HCAPLUS

CN 2,4-Piperidinedione, 3-(3,4-dichlorobenzoyl)-6-phenyl- (9CI) (CA INDEX
NAME)

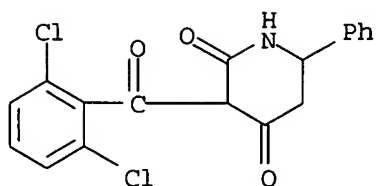
RN 118262-41-2 HCAPLUS

CN 2,4-Piperidinedione, 3-(3-bromobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



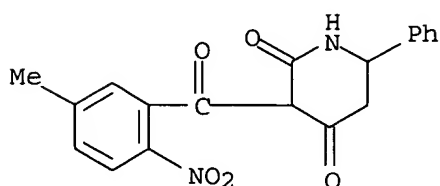
RN 118262-42-3 HCAPLUS

CN 2,4-Piperidinedione, 3-(2,6-dichlorobenzoyl)-6-phenyl- (9CI) (CA INDEX
NAME)



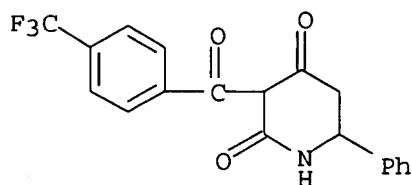
RN 118262-43-4 HCAPLUS

CN 2,4-Piperidinedione, 3-(5-methyl-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



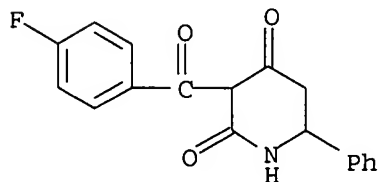
RN 118262-44-5 HCAPLUS

CN 2,4-Piperidinedione, 6-phenyl-3-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



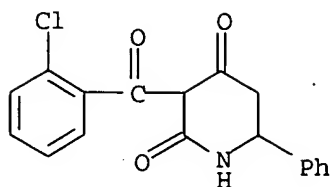
RN 118262-45-6 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-fluorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



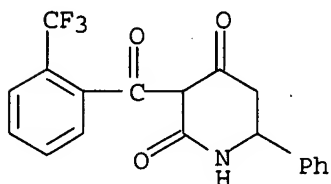
RN 118262-46-7 HCAPLUS

CN 2,4-Piperidinedione, 3-(2-chlorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



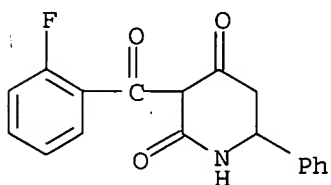
RN 118262-47-8 HCAPLUS

CN 2,4-Piperidinedione, 6-phenyl-3-[2-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



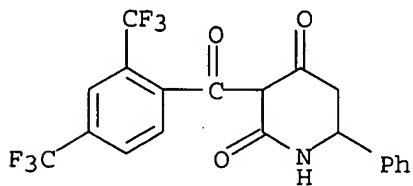
RN 118262-48-9 HCAPLUS

CN 2,4-Piperidinedione, 3-(2-fluorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



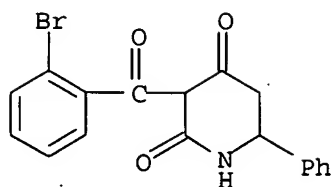
RN 118262-49-0 HCAPLUS

CN 2,4-Piperidinedione, 3-[2,4-bis(trifluoromethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



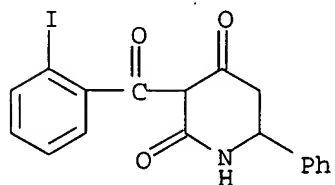
RN 118262-50-3 HCAPLUS

CN 2,4-Piperidinedione, 3-(2-bromobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



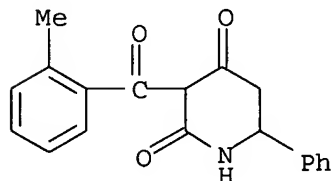
RN 118262-51-4 HCAPLUS

CN 2,4-Piperidinedione, 3-(2-iodobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



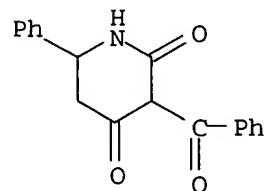
RN 118262-52-5 HCAPLUS

CN 2,4-Piperidinedione, 3-(2-methylbenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



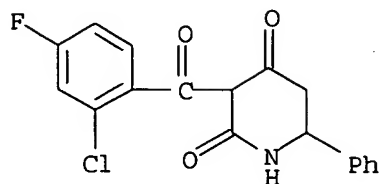
RN 118262-53-6 HCAPLUS

CN 2,4-Piperidinedione, 3-benzoyl-6-phenyl- (9CI) (CA INDEX NAME)



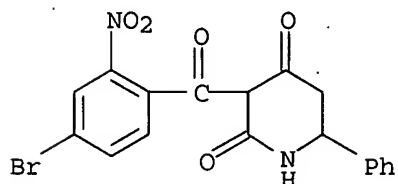
RN 118262-54-7 HCAPLUS

CN 2,4-Piperidinedione, 3-(2-chloro-4-fluorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



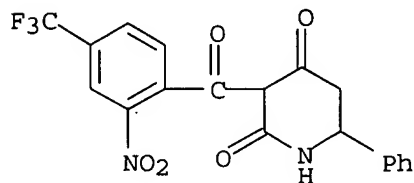
RN 118262-55-8 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-bromo-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



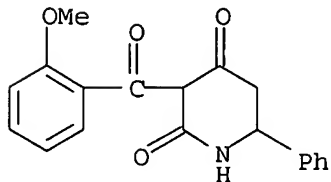
RN 118262-56-9 HCAPLUS

CN 2,4-Piperidinedione, 3-[2-nitro-4-(trifluoromethyl)benzoyl]-6-phenyl-
(9CI) (CA INDEX NAME)



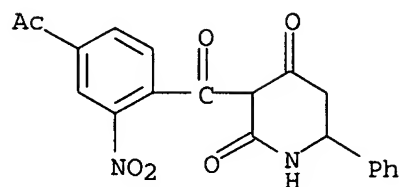
RN 118262-57-0 HCAPLUS

CN 2,4-Piperidinedione, 3-(2-methoxybenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



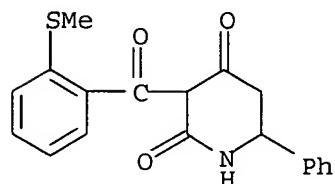
RN 118262-58-1 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-acetyl-2-nitrobenzoyl)-6-phenyl- (9CI) (CA
INDEX NAME)



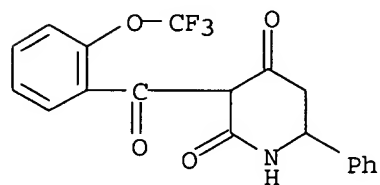
RN 118262-59-2 HCAPLUS

CN 2,4-Piperidinedione; 3-[2-(methylthio)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



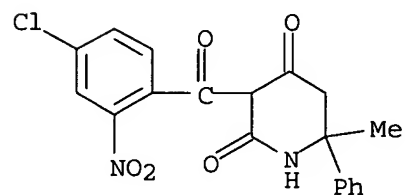
RN 118262-60-5 HCAPLUS

CN	2,4-Piperidinedione, 6-phenyl-3-[2-(trifluoromethoxy)benzoyl]- (9CI) (CA INDEX NAME)
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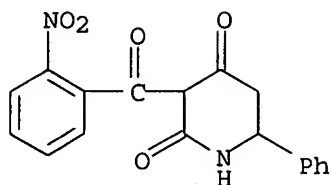
RN 118262-62-7 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-methyl-6-phenyl- (9CI)
(CA INDEX NAME)



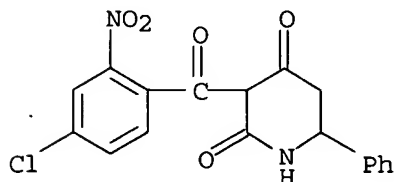
RN 118262-77-4 HCAPLUS

CN	2,4-Piperidinedione, 3-(2-nitrobenzoyl)-6-phenyl-	(9CI)	(CA INDEX NAME)
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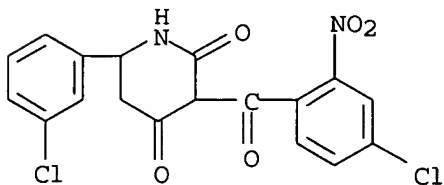
RN 118262-78-5 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



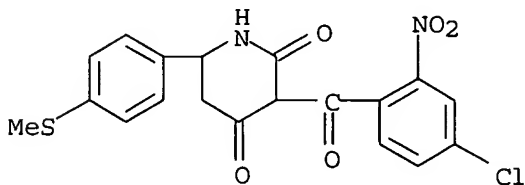
RN 118263-48-2 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



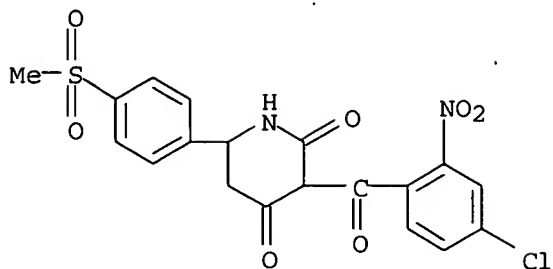
RN 118263-49-3 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



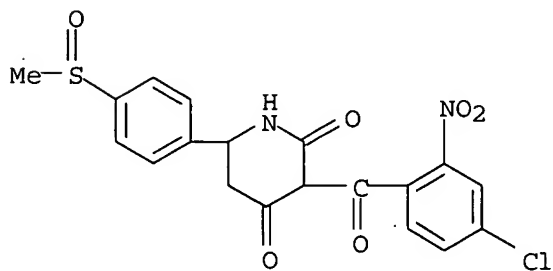
RN 118263-50-6 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



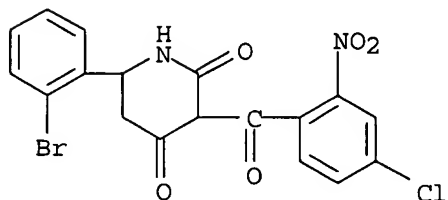
RN 118263-51-7 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-[4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)



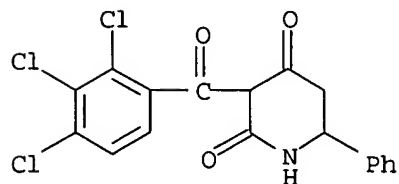
RN 118263-52-8 HCAPLUS

CN 2,4-Piperidinedione, 6-(2-bromophenyl)-3-(4-chloro-2-nitrobenzoyl)- (9CI) (CA INDEX NAME)



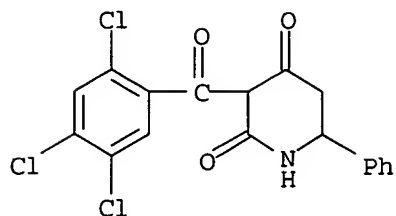
RN 118263-61-9 HCAPLUS

CN 2,4-Piperidinedione, 6-phenyl-3-(2,3,4-trichlorobenzoyl)- (9CI) (CA INDEX NAME)



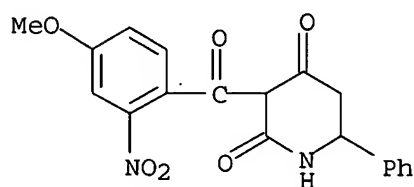
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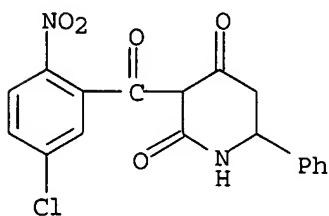
RN 118263-63-1 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-methoxy-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



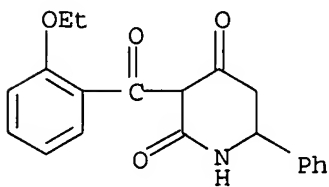
RN 118263-64-2 HCAPLUS

CN 2,4-Piperidinedione, 3-(5-chloro-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



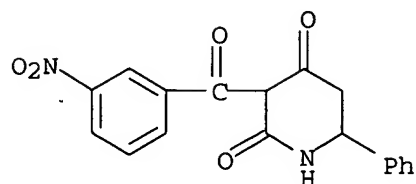
RN 118263-65-3 HCAPLUS

CN 2,4-Piperidinedione, 3-(2-ethoxybenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



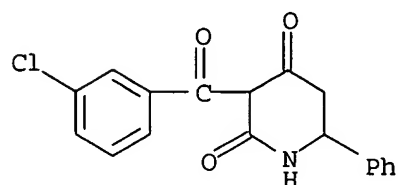
RN 118263-66-4 HCAPLUS

CN 2,4-Piperidinedione, 3-(3-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



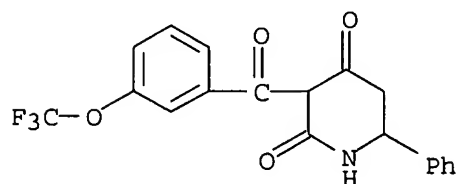
RN 118263-67-5 HCAPLUS

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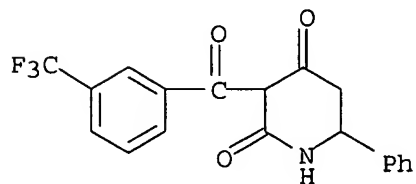
RN 118263-68-6 HCAPLUS

CN 2,4-Piperidinedione, 6-phenyl-3-[3-(trifluoromethoxy)benzoyl]- (9CI) (CA INDEX NAME)



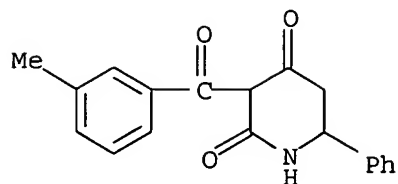
RN 118263-69-7 HCAPLUS

CN 2,4-Piperidinedione, 6-phenyl-3-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



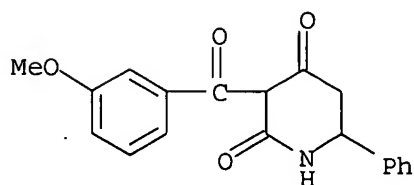
RN 118263-70-0 HCAPLUS

CN 2,4-Piperidinedione, 3-(3-methylbenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



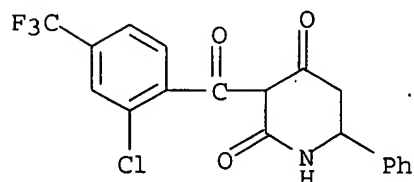
RN 118263-71-1 HCAPLUS

CN 2,4-Piperidinedione, 3-(3-methoxybenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



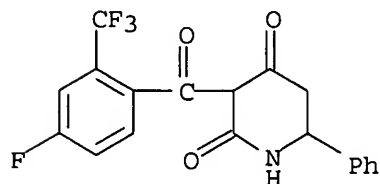
RN 118264-33-8 HCAPLUS

CN 2,4-Piperidinedione, 3-[2-chloro-4-(trifluoromethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



RN 118272-20-1 HCAPLUS

CN 2,4-Piperidinedione, 3-[4-fluoro-2-(trifluoromethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



IT 118263-72-2P 118263-73-3P 118263-74-4P

118263-75-5P 118263-76-6P 118263-93-7P

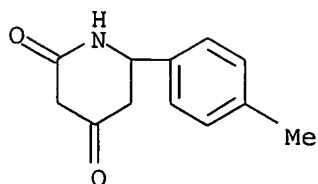
118263-98-2P 118264-04-3P 118281-17-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, for benzoylpiperidinedione herbicides)

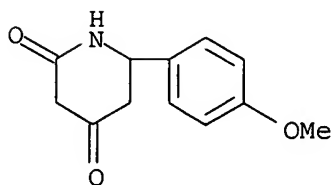
RN 118263-72-2 HCAPLUS

CN 2,4-Piperidinedione, 6-(4-methylphenyl)- (9CI) (CA INDEX NAME)



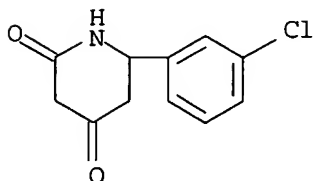
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CN 2,4-Piperidinedione, 6-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



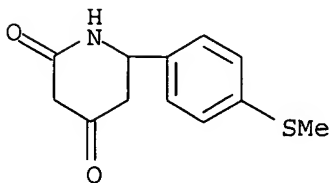
RN 118263-74-4 HCAPLUS

CN 2,4-Piperidinedione, 6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



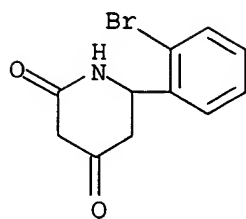
RN 118263-75-5 HCAPLUS

CN 2,4-Piperidinedione, 6-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)

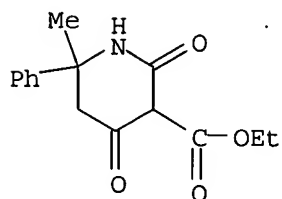


RN 118263-76-6 HCAPLUS

CN 2,4-Piperidinedione, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)

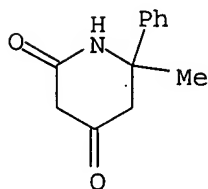


RN 118263-93-7 HCAPLUS

CN 3-Piperidinecarboxylic acid, 6-methyl-2,4-dioxo-6-phenyl-, ethyl ester
(9CI) (CA INDEX NAME)

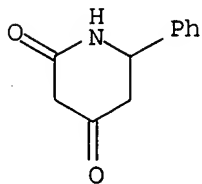
RN 118263-98-2 HCAPLUS

CN 2,4-Piperidinedione, 6-methyl-6-phenyl- (9CI) (CA INDEX NAME)



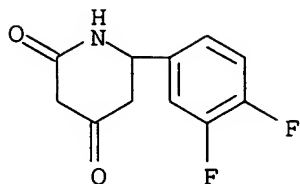
RN 118264-04-3 HCAPLUS

CN 2,4-Piperidinedione, 6-phenyl- (9CI) (CA INDEX NAME)



RN 118281-17-7 HCAPLUS

CN 2,4-Piperidinedione, 6-(3,4-difluorophenyl)- (9CI) (CA INDEX NAME)



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L9 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:335381 HCAPLUS

DOCUMENT NUMBER: 132:334360

TITLE: Preparation of phenyl-substituted cyclic enaminones as herbicides and pesticides.

INVENTOR(S): Fischer, Reiner; Wischnat, Ralf; Drewes, Mark Wilhelm; Dollinger, Markus; Erdelen, Christoph; Feucht, Dieter; Wetcholowsky, Ingo; Wachendorff-Neumann, Ulrike; Philipp, Ulrich; Rauch, Olga-Tatjana

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 143 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

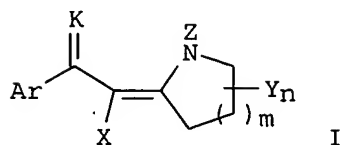
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027812	A1	20000518	WO 1999-EP8366	19991102
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19851986	A1	20000518	DE 1998-19851986	19981111
CA 2350305	AA	20000518	CA 1999-2350305	19991102
BR 9915260	A	20010807	BR 1999-15260	19991102
EP 1129071	A1	20010905	EP 1999-955944	19991102
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002529450	T2	20020910	JP 2000-580992	19991102
AU 770205	B2	20040219	AU 2000-12688	19991102
US 6455472	B1	20020924	US 2001-831261	20010716
US 2003130125	A1	20030710	US 2002-206426	20020726
PRIORITY APPLN. INFO.:				
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			WO 1999-EP8366	W 19991102
			US 2001-831261	A3 20010716

OTHER SOURCE(S): MARPAT 132:334360

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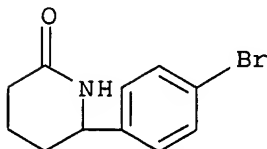
AB Title compds. [I; K = O, S; Ar = (substituted) Ph, naphthyl, mono- or bicyclic heteroaryl; X = cyano, CONR1R2, CSNH2; Y = halo, (substituted) alkyl, alkoxy, Ph, phenylalkyl, heteroaryl, CO2R1, CONR1R2, etc.; Z = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, phenoxyalkyl, phenylthioalkyl, etc.; R1 = H, (substituted) (unsatd.) (heteroatom-interrupted) alkyl, cycloalkyl, Ph, heteroaryl; R2 = H, (substituted) (unsatd.) alkyl, alkoxy, Ph, phenylalkyl, phenylalkoxy; m = 1-3; n = 0-4], were prepared. Thus, 2-ethoxypyrroline and 4-chlorobenzoylacetonitrile were heated in PhMe with azeotropic removal of EtOH to give 74% 3-(4-chlorophenyl)-3-oxo-2-pyrrolidin-2-ylidenepropionitrile. Several I were active against *Phaedon cochleariae* on cabbage leaves.

IT 267880-78-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of phenyl-substituted cyclic enaminones as **herbicides** and pesticides)

RN 267880-78-4 HCAPLUS

CN 2-Piperidinone, 6-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:149991 HCAPLUS

DOCUMENT NUMBER: 132:275433

TITLE: Monoclonal-Based ELISA for the Identification of Herbicidal Cyclohexanedione Analogues That Inhibit Graminaceous Acetyl Coenzyme-A Carboxylase

AUTHOR(S): Webb, Steve R.; Hall, J. Christopher

CORPORATE SOURCE: Dow AgroSciences Canada Inc., Saskatoon, SK, S7N 3R2, Can.

SOURCE: Journal of Agricultural and Food Chemistry (2000) 48(4), 1210-1218

CODEN: JAFCAU; ISSN: 0021-8561

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Cyclohexanediones are one of 4 known structural classes of **herbicides** that inhibit graminaceous acetyl coenzyme-A carboxylase

(ACCase; EC 6.4.1.2). Five monoclonal antibodies were raised against cyclohexanediones conjugated to bovine serum albumin. Cross-reactivity studies using a homologous competitive indirect ELISA (ciELISA) against 24 cyclohexanedione analogs revealed that two monoclonal antibodies (mAb A and mAb B) could segregate the analogs into active and inactive ACCase inhibitors on the basis of the analog concentration required to inhibit 50% of antibody binding to the coating conjugate (IC₅₀). Both mAb A and mAb B were also found to cross-react with various members of the indolizidinedione structural class of ACCase inhibitors in ciELISA, suggesting that both cyclohexanediones and indolizidinediones possess features recognized by monoclonal antibodies important for the inhibition of ACCase activity. Pharmacophore-specific antibodies may be potentially valuable screening tools for the identification of new lead chemistries in a pesticide discovery program.

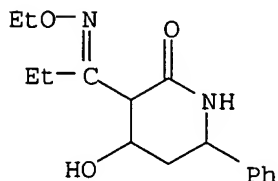
IT 264131-31-9

RL: AGR (Agricultural use); PRP (Properties); BIOL (Biological study); USES (Uses)

(ELISA-identified potential herbicidal graminaceous acetyl coenzyme-A carboxylase inhibiting activity of cyclohexanedione analogs)

RN 264131-31-9 HCAPLUS

CN 2-Piperidinone, 3-[1-(ethoxyimino)propyl]-4-hydroxy-6-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:38898 HCAPLUS

DOCUMENT NUMBER: 110:38898

TITLE: Preparation of benzoylpiperidinediones and other cyclic diones as herbicides

INVENTOR(S): Geach, Neil Jonathan; Gilmour, James; Hatton, Leslie Roy, Smith, Philip Henry Gaunt

PATENT ASSIGNEE(S): May and Baker Ltd., UK

SOURCE: Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

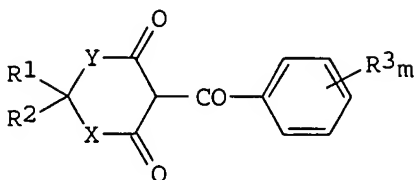
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 278742	A2	19880817	EP 1988-301103	19880210
EP 278742	A3	19891115		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FI 8800591	A	19880812	FI 1988-591	19880209
AU 8811454	A1	19880818	AU 1988-11454	19880209
AU 607183	B2	19910228		
ZA 8800911	A	19900131	ZA 1988-911	19880209

DK 8800680	A	19880812	DK 1988-680	19880210
JP 63203644	A2	19880823	JP 1988-29989	19880210
HU 48092	A2	19890529	HU 1988-607	19880210
HU 203941	B	19911128		
CS 273340	B2	19910312	CS 1988-839	19880210
RO 100664	B1	19921120	RO 1988-132128	19880210
BR 8800580	A	19880927	BR 1988-580	19880211
DD 282005	A5	19900829	DD 1988-312844	19880211
US 5114461	A	19920519	US 1989-440208	19891122
AU 9066910	A1	19910627	AU 1990-66910	19901123
PRIORITY APPLN. INFO.:			GB 1987-3068	A 19870211
			GB 1987-7608	A 19870331
			US 1988-154031	B1 19880209

OTHER SOURCE(S): MARPAT 110:38898
GI



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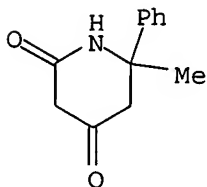
AB Title compds. I [X = CH₂, O, S, R₄N; R₄ = H, C1-6 alkyl, C2-7 alkoxy carbonyl; Y = CH₂, O, R₅R₆N; R₅ = H, C1-6 alkyl, C2-7 alkoxy carbonyl; R₆ = H, C1-6 alkyl; R₁ = H; (un)substituted C1-6 alkyl, C3-6 cycloalkyl; R₂ = H, R₁R₂ = C2-6 alkylene, etc.; R₃ = halo, HO, H₂OC, O₂N, cyano, H₂N, [(un)substituted C1-6 alkyl]carbamoyl, etc.; m = 0-5], or an agriculturally acceptable salt thereof, were prepared
2,4-(O₂N)ClC₆H₃COCl in CH₂Cl₂ was added at 5-10° to
6,6-dimethylpiperidine-2,4-dione and Et₃N in CH₂Cl₂, the mixture stirred at ambient temperature for 18 h, Et₃N and Me₂COHCN were added successively, and
the mixture stirred at ambient temperature to give I (R₁, R₂ = Me; R_{3m} = 2-NO₂, 4-Cl;
X = NH; Y = CH₂) (II). In preemergence test, II at 2000 g/ha gave 100% control of Chenopodium album.

IT 118263-98-2 118264-04-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(benzoylation of)

RN 118263-98-2 HCAPLUS

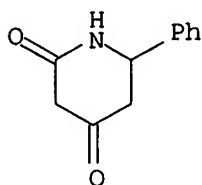
CN 2,4-Piperidinedione, 6-methyl-6-phenyl- (9CI) (CA INDEX NAME)



RN 118264-04-3 HCAPLUS

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CN 2,4-Piperidinedione, 6-phenyl- (9CI) (CA INDEX NAME)

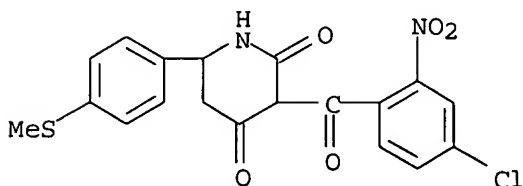


IT 118263-49-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of)

RN 118263-49-3 HCAPLUS

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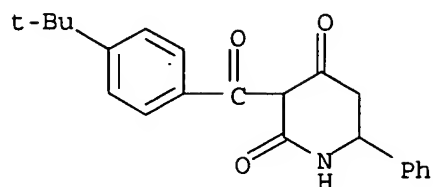


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118263-66-4P 118263-67-5P 118263-68-6P
118263-69-7P 118263-70-0P 118263-71-1P
118264-33-8P 118272-20-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)

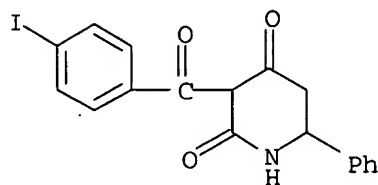
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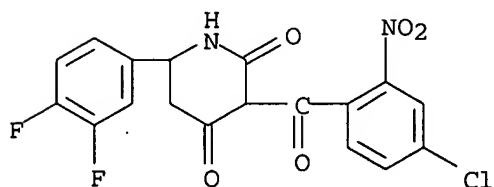
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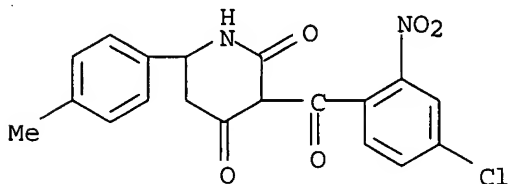
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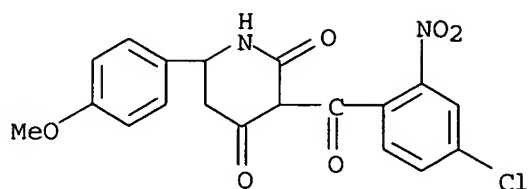
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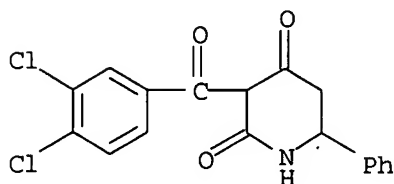
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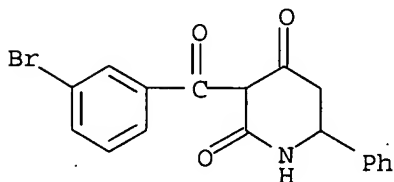
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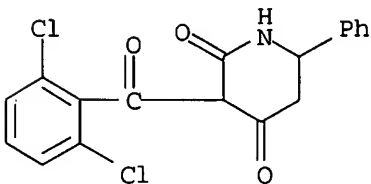
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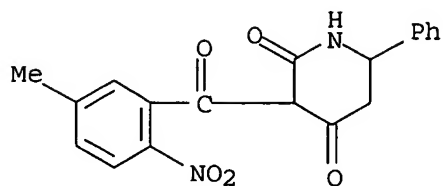
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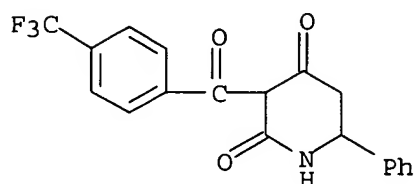
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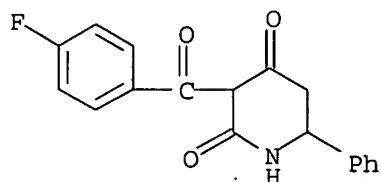
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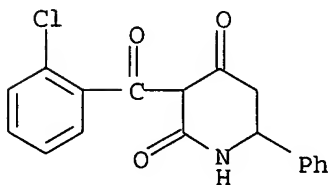
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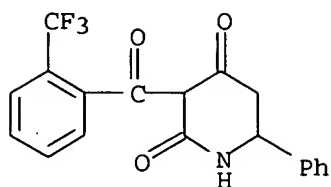
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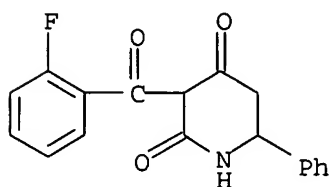
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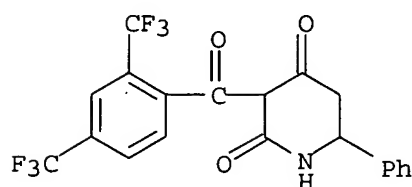


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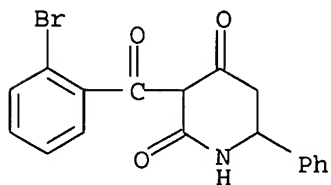


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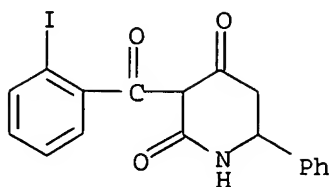
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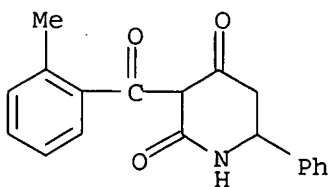
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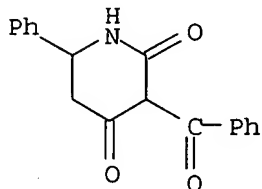
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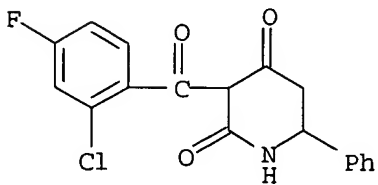
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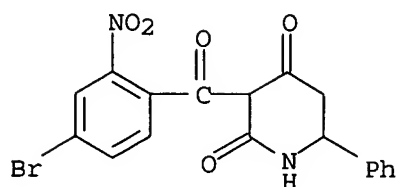
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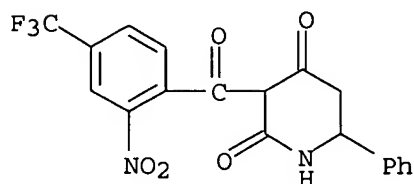
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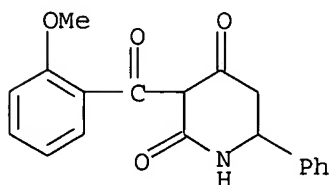
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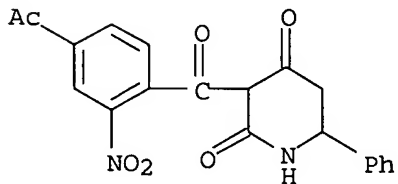
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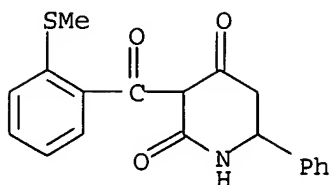
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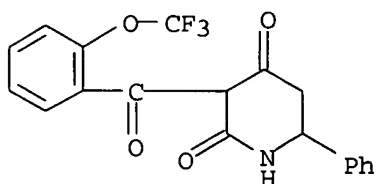
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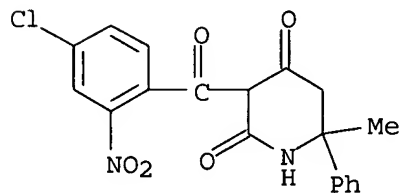
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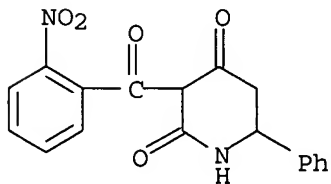
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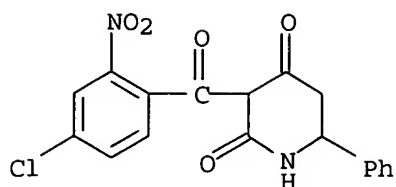
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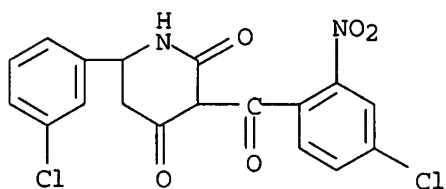
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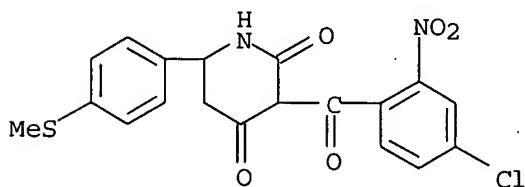
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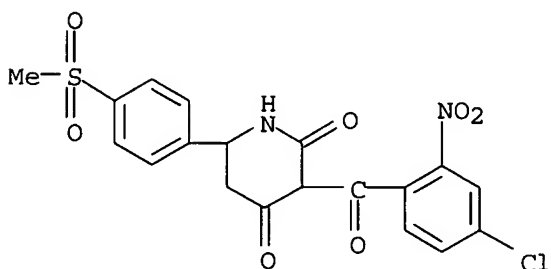
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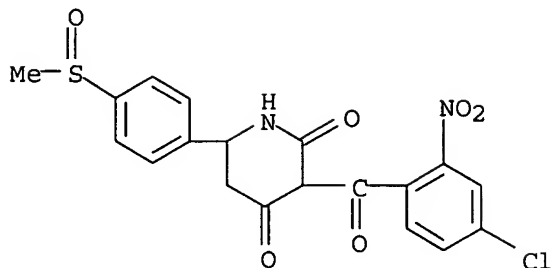
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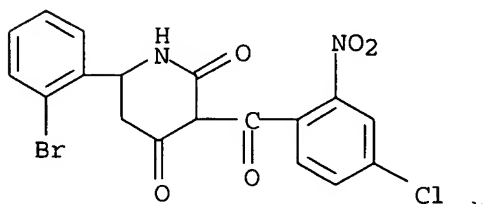


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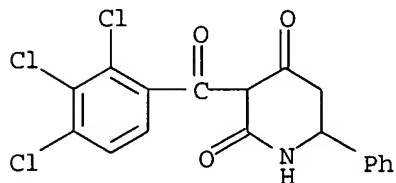
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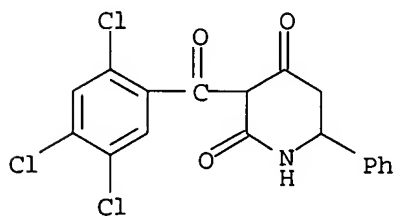
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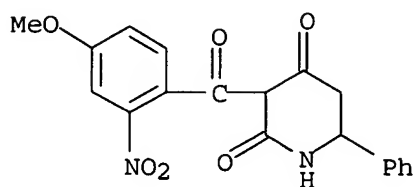
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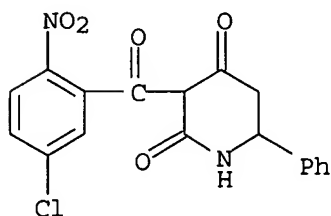
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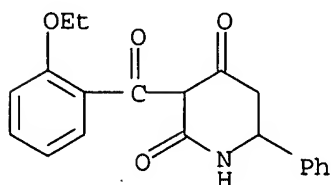
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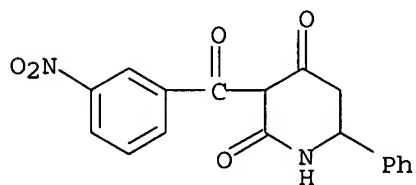
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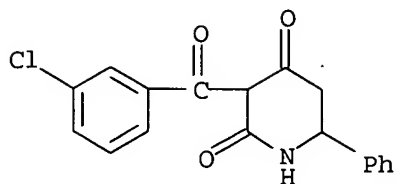
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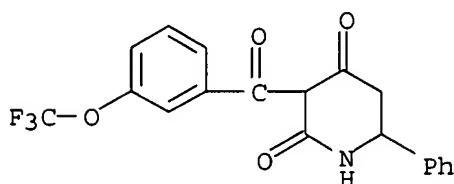
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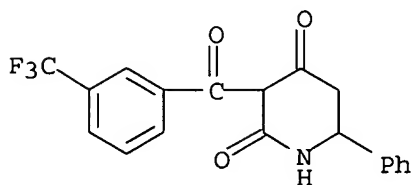
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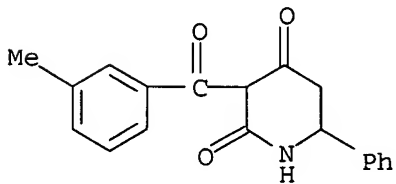
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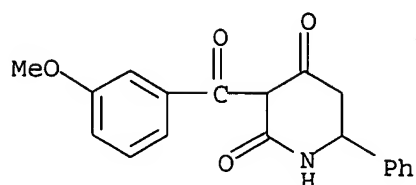
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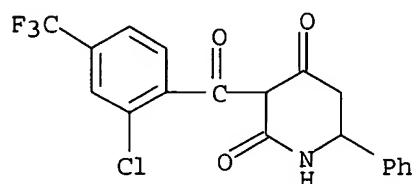
RN 118263-71-1 HCAPLUS

CN 2,4-Piperidinedione, 3-(3-methoxybenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



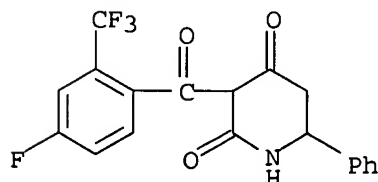
RN 118264-33-8 HCAPLUS

CN 2,4-Piperidinedione, 3-[2-chloro-4-(trifluoromethyl)benzoyl]-6-phenyl-
(9CI) (CA INDEX NAME)



RN 118272-20-1 HCAPLUS

CN 2,4-Piperidinedione, 3-[4-fluoro-2-(trifluoromethyl)benzoyl]-6-phenyl-
(9CI) (CA INDEX NAME)



IT 118263-72-2P 118263-73-3P 118263-74-4P

118263-75-5P 118263-76-6P 118263-93-7P

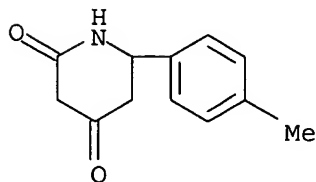
118263-98-2P 118264-04-3P 118281-17-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, for benzoylpiperidinedione **herbicides**)

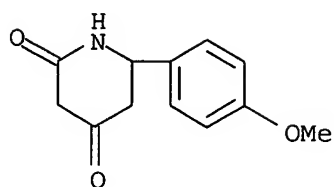
RN 118263-72-2 HCAPLUS

CN 2,4-Piperidinedione, 6-(4-methylphenyl)- (9CI) (CA INDEX NAME)



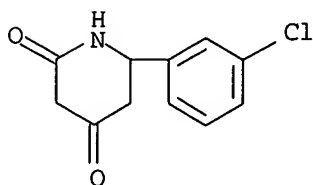
RN 118263-73-3 HCAPLUS

CN 2,4-Piperidinedione, 6-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



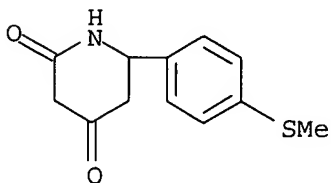
RN 118263-74-4 HCAPLUS

CN 2,4-Piperidinedione, 6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



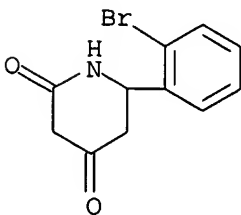
RN 118263-75-5 HCAPLUS

CN 2,4-Piperidinedione, 6-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



RN 118263-76-6 HCAPLUS

CN 2,4-Piperidinedione, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)

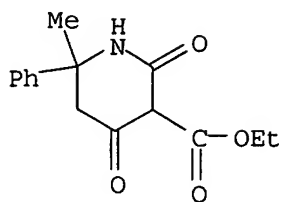


RN 118263-93-7 HCAPLUS

CN 3-Piperidinecarboxylic acid, 6-methyl-2,4-dioxo-6-phenyl-, ethyl ester
(9CI) (CA INDEX NAME)

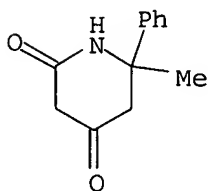
08/29/2005

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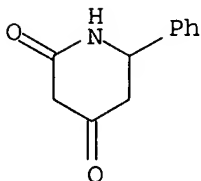
RN 118263-98-2 HCAPLUS

CN 2,4-Piperidinedione, 6-methyl-6-phenyl- (9CI) (CA INDEX NAME)



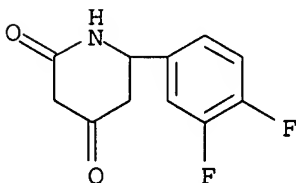
RN 118264-04-3 HCAPLUS

CN 2,4-Piperidinedione, 6-phenyl- (9CI) (CA INDEX NAME)



RN 118281-17-7 HCAPLUS

CN 2,4-Piperidinedione, 6-(3,4-difluorophenyl)- (9CI) (CA INDEX NAME)



=> d l16 ibib abs hitstr tot

L16 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:38898 HCAPLUS

DOCUMENT NUMBER: 110:38898

TITLE: Preparation of benzoylpiperidinediones and other cyclic diones as **herbicides**

INVENTOR(S): Geach, Neil Jonathan; Gilmour, James; Hatton, Leslie

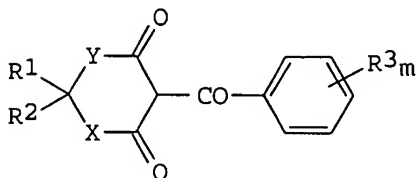
10768294.trn

Page 62

16:33

PATENT ASSIGNEE(S): Roy, Smith, Philip Henry Gaunt
 SOURCE: May and Baker Ltd., UK
 Eur. Pat. Appl., 31 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 278742	A2	19880817	EP 1988-301103	19880210 <--
EP 278742	A3	19891115		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FI 8800591	A	19880812	FI 1988-591	19880209 <--
AU 8811454	A1	19880818	AU 1988-11454	19880209 <--
AU 607183	B2	19910228		
ZA 8800911	A	19900131	ZA 1988-911	19880209 <--
DK 8800680	A	19880812	DK 1988-680	19880210 <--
JP 63203644	A2	19880823	JP 1988-29989	19880210 <--
HU 48092	A2	19890529	HU 1988-607	19880210 <--
HU 203941	B	19911128		
CS 273340	B2	19910312	CS 1988-839	19880210 <--
RO 100664	B1	19921120	RO 1988-132128	19880210 <--
BR 8800580	A	19880927	BR 1988-580	19880211 <--
DD 282005	A5	19900829	DD 1988-312844	19880211 <--
US 5114461	A	19920519	US 1989-440208	19891122 <--
AU 9066910	A1	19910627	AU 1990-66910	19901123 <--
PRIORITY APPLN. INFO.:			GB 1987-3068	A 19870211
			GB 1987-7608	A 19870331
			US 1988-154031	B1 19880209
OTHER SOURCE(S):			MARPAT 110:38898	
GI				



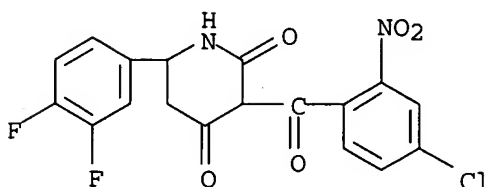
I

AB Title compds. I [X = CH₂, O, S, R₄N; R₄ = H, C1-6 alkyl, C2-7 alkoxy carbonyl; Y = CH₂, O, R₅R₆N; R₅ = H, C1-6 alkyl, C2-7 alkoxy carbonyl; R₆ = H, C1-6 alkyl; R₁ = H; (un)substituted C1-6 alkyl, C3-6 cycloalkyl; R₂ = H, R₁R₂ = C2-6 alkylene, etc.; R₃ = halo, HO, H₂OC, O₂N, cyano, H₂N, [(un)substituted C1-6 alkyl]carbonyl, etc.; m = 0-5], or an agriculturally acceptable salt thereof, were prepared
 2,4-(O₂N)C₁C₆H₃COCl in CH₂Cl₂ was added at 5-10° to 6,6-dimethylpiperidine-2,4-dione and Et₃N in CH₂Cl₂, the mixture stirred at ambient temperature for 18 h, Et₃N and Me₂COHCN were added successively, and the mixture stirred at ambient temperature to give I (R₁, R₂ = Me; R_{3m} = 2-NO₂, 4-Cl; X = NH; Y = CH₂) (II). In preemergence test, II at 2000 g/ha gave 100% control of *Chenopodium album*.
 IT 118262-36-5P 118263-48-2P 118263-52-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

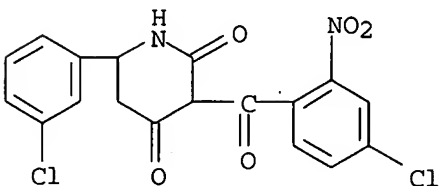
RN 118262-36-5 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(3,4-difluorophenyl)- (9CI) (CA INDEX NAME)



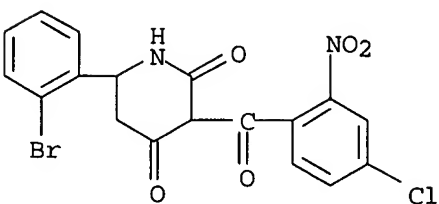
RN 118263-48-2 HCAPLUS

CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 118263-52-8 HCAPLUS

CN 2,4-Piperidinedione, 6-(2-bromophenyl)-3-(4-chloro-2-nitrobenzoyl)- (9CI) (CA INDEX NAME)

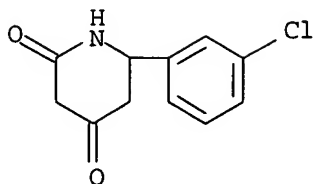


IT 118263-74-4P 118263-76-6P 118281-17-7P

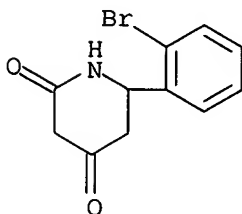
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, for benzoylpiperidinedione herbicides)

RN 118263-74-4 HCAPLUS

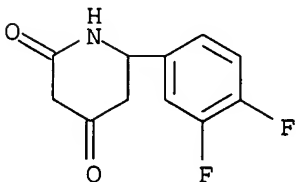
CN 2,4-Piperidinedione, 6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 118263-76-6 HCAPLUS
CN 2,4-Piperidinedione, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)



RN 118281-17-7 HCAPLUS
CN 2,4-Piperidinedione, 6-(3,4-difluorophenyl)- (9CI) (CA INDEX NAME)



=> d 114 ibib abs hitstr 1-10

L14 ANSWER 1 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:213736 HCAPLUS
DOCUMENT NUMBER: 128:243927
TITLE: Ethyl cyanoacetate in organic synthesis new pyridines and benzopyrano[3,4-c]pyridines
AUTHOR(S): Haggag, B.
CORPORATE SOURCE: National Research Centre, Cairo, Egypt
SOURCE: Al-Azhar Bulletin of Science (1996), 7(2), 1217-1227
CODEN: ABSCE7; ISSN: 1110-2535
PUBLISHER: Al-Azhar University, Faculty of Science
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Reaction of Et cyanoacetate with 1,3-diaryl-2-propen-1-ones under basic conditions was investigated to afford Michael-adducts. The latter, upon treating with ammonium acetate gave the corresponding 3-cyano-2(1H)-pyridone derivs. On the other hand, reaction of 3-(2-hydroxyaryl)-2-propen-1-ones with Et cyanoacetate gave the corresponding

Et 2-amino-4H[1]benzopyran-3-carboxylates which upon treating with ammonium acetate gave the corresponding ethyl-2-amino-4,5-dihydropyridine-3-carboxylates accompanied with 4-amino-5-oxo-[1]benzopyrano[3,4-c]pyridines. Meanwhile, for the reaction of propenone derivs. with Et cyanoacetate in the presence of excess ammonium acetate led to the formation of 3,4-dihydrobenzopyrano[3,4-c]pyridine-4,5- diones along with 2-piperidone. The latter could also be isolated through the reaction of 3-cyanocoumarin derivs. with 3,4-dichloroacetophenone in the presence of ammonium acetate.

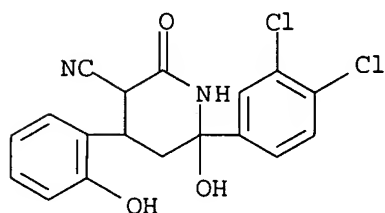
IT 204907-27-7P 204907-29-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of benzopyranopyridines and pyridines from Et cyanoacetate)

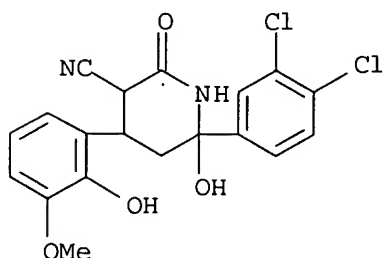
RN 204907-27-7 HCAPLUS

CN 3-Piperidinecarbonitrile, 6-(3,4-dichlorophenyl)-6-hydroxy-4-(2-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



RN 204907-29-9 HCAPLUS

CN 3-Piperidinecarbonitrile, 6-(3,4-dichlorophenyl)-6-hydroxy-4-(2-hydroxy-3-methoxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:975371 HCAPLUS

DOCUMENT NUMBER: 124:29605

TITLE: Preparation of aralkylamino-substituted azacyclic tachykinin antagonists

INVENTOR(S): Maccoss, Malcolm; Swain, Christopher John

PATENT ASSIGNEE(S): Merck Sharp and Dohme Ltd., UK

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

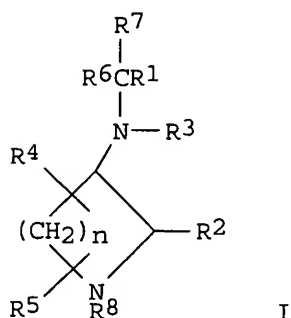
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9520575	A1	19950803	WO 1995-GB153	19950126 <--
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2181376	AA	19950803	CA 1995-2181376	19950126 <--
AU 9514627	A1	19950815	AU 1995-14627	19950126 <--
EP 741704	A1	19961113	EP 1995-906433	19950126 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 09508376	T2	19970826	JP 1995-519937	19950126
US 5728716	A	19980317	US 1996-676156	19960711
PRIORITY APPLN. INFO.:			GB 1994-1639	A 19940128
			GB 1994-1642	A 19940128
			WO 1995-GB153	W 19950126
OTHER SOURCE(S):		MARPAT 124:29605		
GI				



AB The title compds. [I; n = 1-3 and any carbon atom of (CH₂)_n may be substituted by R₄ and/or R₅; R₁ = (un)substituted alkylphenyl; R₂ = (un)substituted aryl, (un)substituted heteroaryl; R₃ = H, C1-6 alkyl; R₄, R₅ = H, halogen, C1-6 alkyl, etc; R₆ = H, C1-6 alkyl; R₇ = H, C1-6 alkyl optionally substituted by a hydroxy group, alkylamino, etc.; R₈ = H, CORa, CO₂Ra, COCONRaRb, COCO₂Ra, (un)substituted C1-6 alkyl; Ra, Rb = H, (un)substituted alkyl, (un)substituted Ph], useful as tachykinin antagonists (no data) in the treatment of pain (no data), inflammation (no data), migraine (no data), and emesis (no data), are prepared Thus, cis-(±)-3-(2-hydroxy-1-phenylethylamino)phenylpiperidine was prepared from (±)-5-amino-6-phenylpiperidin-2-one and 2-bromo-2-phenylacetic acid.

IT 171274-25-2

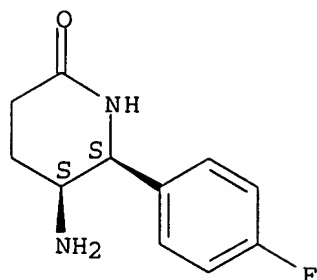
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of aralkylamino-substituted azacyclic tachykinin antagonists from)

RN 171274-25-2 HCAPLUS

CN 2-Piperidinone, 5-amino-6-(4-fluorophenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 171274-21-8P 171274-22-9P 171482-34-1P

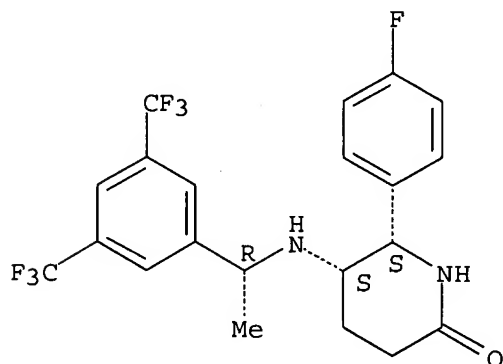
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aralkylamino-substituted azacyclic tachykinin antagonists from)

RN 171274-21-8 HCAPLUS

CN 2-Piperidinone, 5-[[1-[3,5-bis(trifluoromethyl)phenyl]ethyl]amino]-6-(4-fluorophenyl)-, [5α(S*),6α]- (9CI) (CA INDEX NAME)

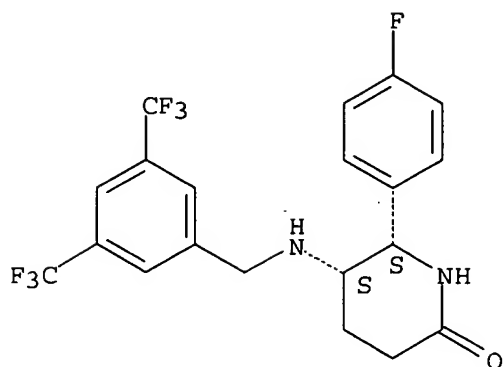
Relative stereochemistry.



RN 171274-22-9 HCAPLUS

CN 2-Piperidinone, 5-[[[1-[[3,5-bis(trifluoromethyl)phenyl]methyl]amino]-6-(4-fluorophenyl)-, dihydrochloride, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

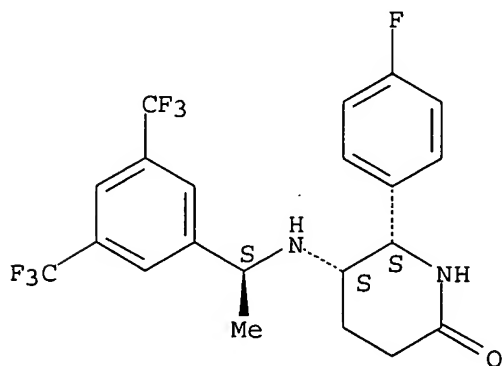


● 2 HCl

RN 171482-34-1 HCAPLUS

CN 2-Piperidinone, 5-[[1-[3,5-bis(trifluoromethyl)phenyl]ethyl]amino]-6-(4-fluorophenyl)-, [5 α (R*),6 α]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L14 ANSWER 3 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:959352 HCAPLUS

DOCUMENT NUMBER: 124:75541

TITLE: Spiro-piperidine non-peptide neurokinin-1 receptor antagonists

AUTHOR(S): Armour, D. R.; Watson, S. P.; Pegg, N. A.; Heron, N. M.; Middlemiss, D.; Chan, C.; Cholerton, T. J.; Hubbard, T.; Vinader, M. V.; et al.

CORPORATE SOURCE: Glaxo-Wellcome Medicines Res. Centre, Stevenage, Hertfordshire, SG1 2NY, UK

SOURCE: Bioorganic & Medicinal Chemistry Letters (1995), 5(22), 2671-6

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The synthesis and activity of a novel spiro-piperidine non-peptide

antagonist of the neurokinin-1 (NK1) receptor is described. Despite having essentially the same solution conformation as CP 99,994 at physiological pH, the new antagonist has reduced affinity for the NK1 receptor.

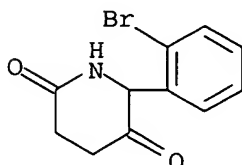
IT 160822-16-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(spiro-piperidine non-peptide neurokinin-1 receptor antagonists)

RN 160822-16-2 HCAPLUS

CN 2,5-Piperidinedione, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)



L14 ANSWER 4 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:823012 HCAPLUS

DOCUMENT NUMBER: 123:228191

TITLE: Preparation of 3-(5-tetrazolylbenzyl)piperidinamine derivatives as tachykinin antagonists

INVENTOR(S): Armour, Duncan Robert; Evans, Brian; Giblin, Gerard Martin Paul; Hann, Michael Menteith; Hubbard, Tania; Lewell, Xiao-Qing; Middlemiss, David; Naylor, Alan; Pegg, Neil Anthony; et al.

PATENT ASSIGNEE(S): Glaxo Group Ltd., UK

SOURCE: PCT Int. Appl., 93 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

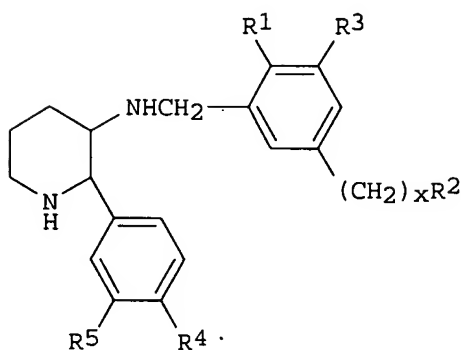
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9508549	A1	19950330	WO 1994-EP3129	19940920 <--
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
IL 111002	A1	19980924	IL 1994-111002	19940919
CA 2172529	AA	19950330	CA 1994-2172529	19940920 <--
AU 9476974	A1	19950410	AU 1994-76974	19940920 <--
AU 681190	B2	19970821		
ZA 9407291	A	19950531	ZA 1994-7291	19940920 <--
EP 720609	A1	19960710	EP 1994-927627	19940920 <--
EP 720609	B1	19981111		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1135218	A	19961106	CN 1994-194145	19940920 <--
CN 1061041	B	20010124		
JP 09505275	T2	19970527	JP 1994-509554	19940920
JP 2865872	B2	19990308		
HU 75648	A2	19970528	HU 1996-722	19940920

AT 173255	E	19981115	AT 1994-927627	19940920
ES 2123829	T3	19990116	ES 1994-927627	19940920
JP 11106341	A2	19990420	JP 1998-224991	19940920
CZ 285479	B6	19990811	CZ 1996-830	19940920
RU 2136675	C1	19990910	RU 1996-107785	19940920
HR 940575	B1	20000630	HR 1994-940575	19940920
SK 280901	B6	20000912	SK 1996-383	19940920
PL 179585	B1	20000929	PL 1994-313619	19940920
TW 389762	B	20000511	TW 1994-83108909	19940926
FI 9601270	A	19960503	FI 1996-1270	19960319 <--
NO 9601156	A	19960521	NO 1996-1156	19960321 <--
NO 307830	B1	20000605		
US 5703240	A	19971230	US 1996-612843	19960321
US 5843966	A	19981201	US 1997-899190	19970723
PRIORITY APPLN. INFO.:			GB 1993-19606	A 19930922
			GB 1993-26583	A 19931231
			JP 1995-509554	A3 19940920
			WO 1994-EP3129	W 19940920
			US 1996-612843	A1 19960321
OTHER SOURCE(S):	MARPAT 123:228191			
GI				



AB Title compds. I (R1 = C1-4 alkoxy; R2 = (substituted)tetrazolyl; R3 = H, halo; R4, R5 = H, halo, C1-4 alkyl, C1-4 alkoxy, F3C) or a salt thereof, useful also as antiemetics, are prepared (2S)-phenylpiperidin-(3S)-ylamine, 2-methoxy-5-(5-trifluoromethyltetrazol-1-yl)benzaldehyde (preparation given), Na triacetoxyborohydride and AcOH were reacted to give an oil which was treated with ethereal HCl to give [2-methoxy-5-(5 trifluoromethyltetrazol-1-yl)benzyl]-([2S,3S]-2-phenylpiperidin-3-yl)amine-2HCl (II). II at 0.03 mg/kg, given to ferret 1.5 h prior to irradiation inhibited radiation-induced emesis. Pharmaceutical formulations comprising I are given. I are claimed for a condition mediated by tachykinins, including substance P and other neurokinins.

IT 168267-18-3P 168267-20-7P 168267-21-8P
168267-22-9P 168267-24-1P 168267-25-2P
168267-26-3P 168267-28-5P 168267-29-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

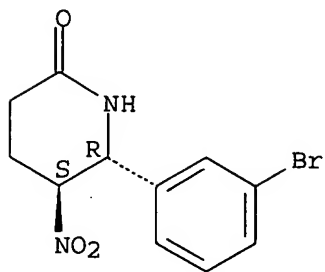
(preparation of 3-(5-tetrazolylbenzyl)piperidinamine derivs. as tachykinin antagonists)

RN 168267-18-3 HCAPLUS

CN 2-Piperidinone, 6-(3-bromophenyl)-5-nitro-, trans- (9CI) (CA INDEX NAME)

08/29/2005 10768294.trn

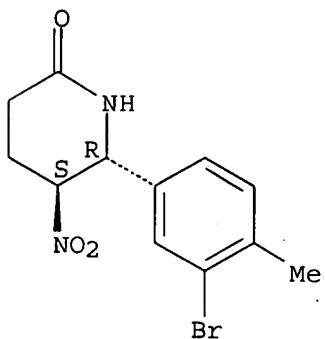
Relative stereochemistry.



RN 168267-20-7 HCAPLUS

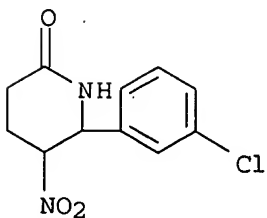
CN 2-Piperidinone, 6-(3-bromo-4-methylphenyl)-5-nitro-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



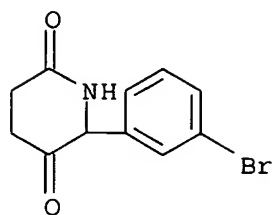
RN 168267-21-8 HCAPLUS

CN 2-Piperidinone, 6-(3-chlorophenyl)-5-nitro- (9CI) (CA INDEX NAME)



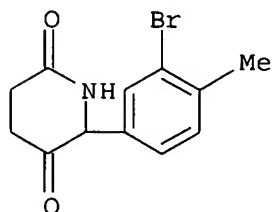
RN 168267-22-9 HCAPLUS

CN 2,5-Piperidinedione, 6-(3-bromophenyl)- (9CI) (CA INDEX NAME)



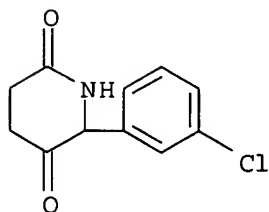
RN 168267-24-1 HCAPLUS

CN 2,5-Piperidinedione, 6-(3-bromo-4-methylphenyl)- (9CI) (CA INDEX NAME)



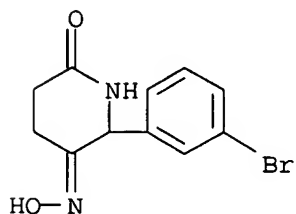
RN 168267-25-2 HCAPLUS

CN 2,5-Piperidinedione, 6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



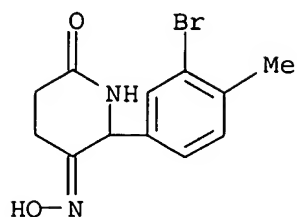
RN 168267-26-3 HCAPLUS

CN 2,5-Piperidinedione, 6-(3-bromophenyl)-, 5-oxime (9CI) (CA INDEX NAME)

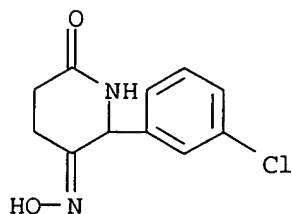


RN 168267-28-5 HCAPLUS

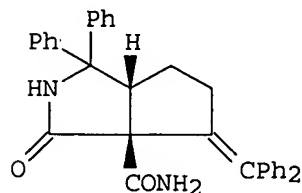
CN 2,5-Piperidinedione, 6-(3-bromo-4-methylphenyl)-, 5-oxime (9CI) (CA INDEX NAME)



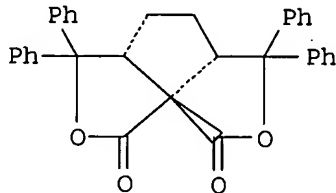
RN 168267-29-6 HCAPLUS
 CN 2,5-Piperidinedione, 6-(3-chlorophenyl)-, 5-oxime (9CI) (CA INDEX NAME)



L14 ANSWER 5 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:713374 HCAPLUS
 DOCUMENT NUMBER: 123:339607
 TITLE: Manganese(III)-mediated oxidative radical cyclization.
 2. Reaction of 1,1,ω,ω-tetraaryl-
 substituted terminal alkadienes with malonamide or
 acetoacetamide
 AUTHOR(S): Nishino, Hiroshi; Hashimoto, Hideaki; Korp, James D.;
 Kurosawa, Kazu
 CORPORATE SOURCE: Dep. Chemistry, Kumamoto Univ., Kumamoto, 860, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (
 1995), 68(7), 1999-2009
 CODEN: BCSJA8; ISSN: 0009-2673
 PUBLISHER: Nippon Kagakkai
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



I



II

AB The oxidation of 1,1,6,6-tetraaryl-1,5-hexadienes with manganese(III) acetate in the presence of malonamide gave two types of 5-exo cyclization products, 1-carbamoyl-8-(diarylmethylene)-3-azabicyclo[3.3.0]octan-2-ones, e.g., I, and 3,10-dioxatricyclo[6.3.0.01,5]undecane-2,11-diones, e.g., II,

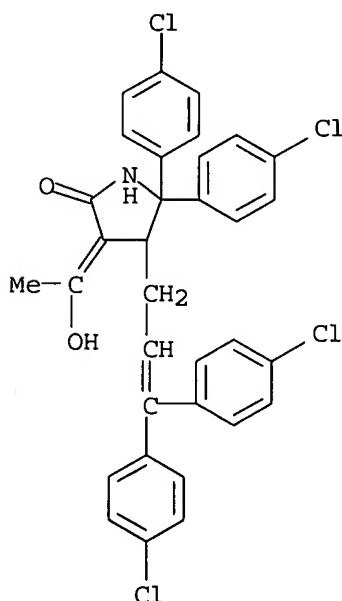
in good to moderate yields. Similar reactions of 1,1,5,5-tetraaryl-1,4-pentadienes or 1,1,7,7-tetraaryl-1,6-heptadienes with malonamide yielded only complex mixts., except for the formation of a small amount of 3,11-dioxatricyclo[7.3.0.0^{1,5}]dodecane-2,12-dione. On the other hand, 1,1,5,5-tetraaryl-1,4-pentadienes reacted with acetoacetamide in the presence of manganese(III) acetate to afford 3-carbamoyl-2-methyl-4-(2-propenyl)-4,5-dihydrofurans and 1,4-pentadienes substituted at the 3-position with acetoacetamide. A similar reaction of 1,1,6,6-tetraaryl-1,5-hexadienes with acetoacetamide gave 8-[acetoxy(diaryl)methyl]-3-oxabicyclo[3.3.0]octan-2-ones, 1-acetyl-8-(diarylmethylene)-3-azabicyclo[3.3.0]octan-2-ones, and 4-(3-butenyl)-3-carbamoyl-2-methyl-4,5-dihydrofurans. The selectivity of the inter- and intramol. cyclizations involving the carboxamide moiety of malonamide or acetoacetamide is discussed.

IT 170304-24-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 170304-24-2 HCAPLUS

CN 2-Pyrrolidinone, 4-[3,3-bis(4-chlorophenyl)-2-propenyl]-5,5-bis(4-chlorophenyl)-3-(1-hydroxyethylidene)- (9CI) (CA INDEX NAME)



L14 ANSWER 6 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:297012 HCAPLUS

DOCUMENT NUMBER: 122:105615

TITLE: A novel palladium(0) catalyzed tandem 1,3-allyl shift and Heck arylation

AUTHOR(S): Watson, Stephen P.; Knox, Graham R.; Heron, Nicola M.

CORPORATE SOURCE: Glaxo Research Development Limited, Hertfordshire, SG12 0DP, UK

SOURCE: Tetrahedron Letters (1994), 35(52), 9763-6

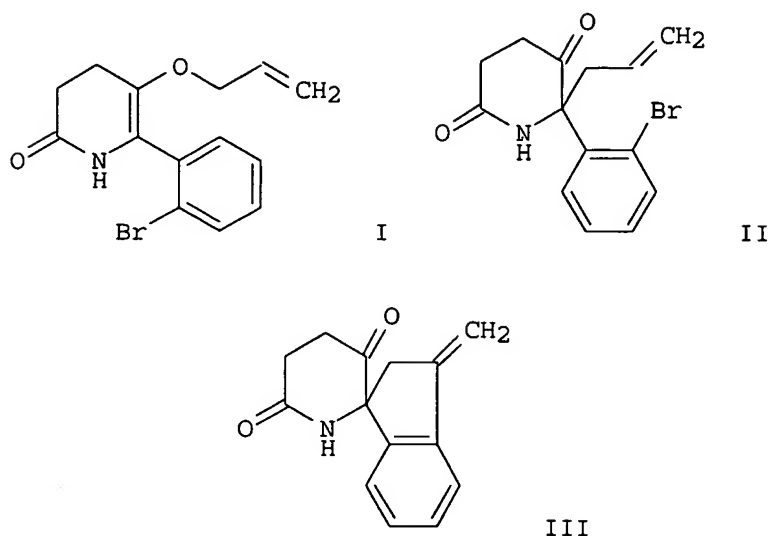
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:105615
GI

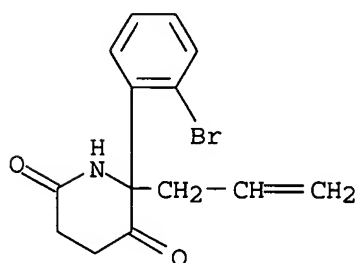


AB On treatment with $[Pd(PPh_3)_4]$ allyl vinyl ether I undergoes a $Pd(0)$ catalyzed 1,3-oxygen to carbon allyl shift to afford α -allyl ketone II. In the presence of both $Pd(PPh_3)_4$ and base the allyl vinyl ether undergoes a $Pd(0)$ catalyzed tandem 1,3-allyl shift and intramol. Heck arylation to give the spiro indane III. Mechanistic investigations suggest that the 1,3-allyl shift proceeds via a π -allyl palladium intermediate.

IT **160822-15-1P 160822-16-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(novel palladium-catalyzed tandem allyl shift and Heck arylation)

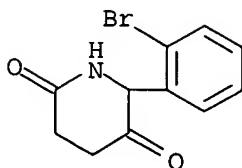
RN 160822-15-1 HCAPLUS

CN 2,5-Piperidinedione, 6-(2-bromophenyl)-6-(2-propenyl)- (9CI) (CA INDEX NAME)



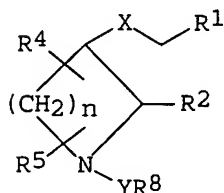
RN 160822-16-2 HCAPLUS

CN 2,5-Piperidinedione, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)



L14 ANSWER 7 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1994:483342 HCAPLUS
 DOCUMENT NUMBER: 121:83342
 TITLE: Azacyclic tachykinin antagonists
 INVENTOR(S): Baker, Raymond; Laddhwahetty, Tamara; Seward, Eileen Mary; Swain, Christopher John
 PATENT ASSIGNEE(S): Merck Sharp and Dohme Ltd., UK
 SOURCE: PCT Int. Appl., 132 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9321181	A1	19931028	WO 1993-GB788	19930414 <--
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RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5444074	A	19950822	US 1993-46538	19930413 <--
AU 9340765	A1	19931118	AU 1993-40765	19930414 <--
AU 675786	B2	19970220		
EP 636130	A1	19950201	EP 1993-910151	19930414 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 07505648	T2	19950622	JP 1993-518131	19930414 <--
US 5496833	A	19960305	US 1995-387684	19950213 <--
PRIORITY APPLN. INFO.:			GB 1992-8323	A 19920415
			GB 1992-16065	A 19920728
			GB 1992-19686	A 19920917
			GB 1992-26069	A 19921214
			US 1993-46538	A3 19930413
			WO 1993-GB788	A 19930414
OTHER SOURCE(S):			MARPAT 121:83342	
GI				



I

AB The title compds. I [R1 = (un)substituted Ph; R2 = (un)substituted aryl, (un)substituted heteroaryl, (un)substituted benzhydryl, (un)substituted PhCH₂; R4, R5 = H, halogen, C1-6 alkyl, oxo, etc.; R8 = (un)substituted aromatic heterocycle; X = O, S; Y = (un)substituted C1-4 hydrocarbon chain; n = 1-3], useful as tachykinin antagonists (no data), are prepared and I-containing formulations presented. Thus, hydroxyguanidine sulfate was reacted with (2R,3R)-3-[[3,5-bis(trifluoromethyl)phenyl]methoxy]-1-(carbomethoxy)methyl-2-phenylpiperidine, producing 3-amino-5-[[[(2R,3R)-3-[[3,5-bis(trifluoromethyl)phenyl]methoxy]-2-phenylpiperidino]methyl]-1,2,4-oxadiazole.

IT 155765-33-6 168267-25-2

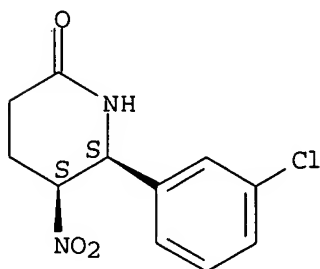
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation as intermediate in preparation of azacyclic tachykinin antagonists)

RN 155765-33-6 HCAPLUS

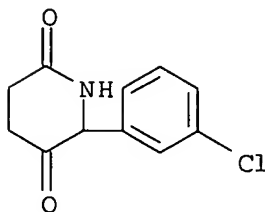
CN 2-Piperidinone, 6-(3-chlorophenyl)-5-nitro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 168267-25-2 HCAPLUS

CN 2,5-Piperidinedione, 6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



L14 ANSWER 8 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:323524 HCAPLUS

DOCUMENT NUMBER: 120:323524

TITLE: Novel cyclodimerization reactions of 2-cyano-3-phenylprop-2-enamide

AUTHOR(S): O'Callaghan, Conor N.; McMurry, T. Brian H.; Cardin, Christine J.; Wilcock, Deborah J.

CORPORATE SOURCE: Trinity Coll., Univ. Chem. Lab., Dublin, Ire.

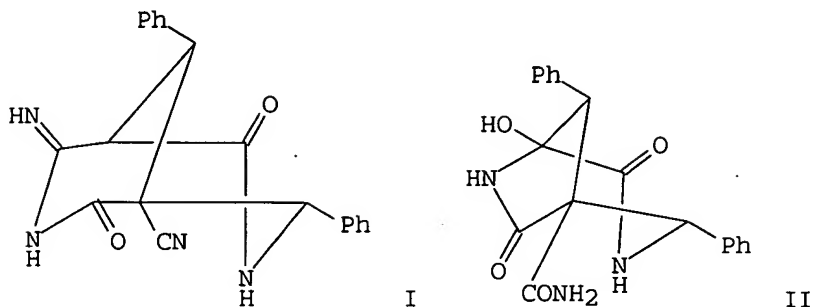
SOURCE: Journal of Chemical Research, Synopses (1994), (2), 60-1,401-27

CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 120:323524
GI



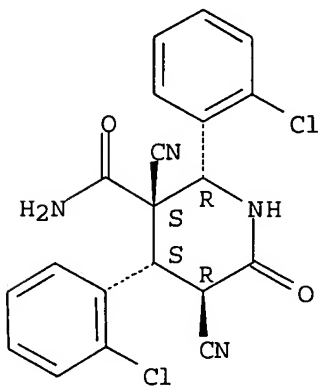
AB 4-Imino-8,9-diphenyl-2,6-dioxo-3,7-diazabicyclo[3.3.1]nonane-1-carbonitrile (I) is readily obtained from 2-cyano-3-phenyl-2-propenamide in dry EtOH in the presence of NaOEt; when undried alc. is used, however, the product is 5-hydroxy-2,8-diphenyl-4,7-dioxo-3,6-diazabicyclo[3.2.1]octane-1-carboxamide (II), the structure of which was confirmed by x-ray crystal anal.

IT 154879-16-0P 154879-17-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 154879-16-0 HCAPLUS

CN 3-Piperidinecarboxamide, 2,4-bis(2-chlorophenyl)-3,5-dicyano-6-oxo-,
(2 α ,3 α ,4 α ,5 β)- (9CI) (CA INDEX NAME)

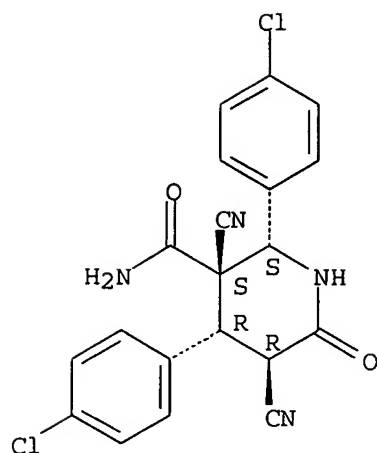
Relative stereochemistry.



RN 154879-17-1 HCAPLUS

CN 3-Piperidinecarboxamide, 2,4-bis(4-chlorophenyl)-3,5-dicyano-6-oxo-,
(2 α ,3 α ,4 α ,5 β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L14 ANSWER 9 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:244592 HCAPLUS

DOCUMENT NUMBER: 120:244592

TITLE: Synthesis and stereochemistry of cis- and trans-4,6-diaryl-2-piperidones

AUTHOR(S): Rao, H. Surya Prakash; Bharathi, Balasubramanian

CORPORATE SOURCE: Dep. Chem., Pondicherry Univ., Pondicherry, 605 014, India

SOURCE: Journal of Chemical Research, Synopses (1994), (3), 87

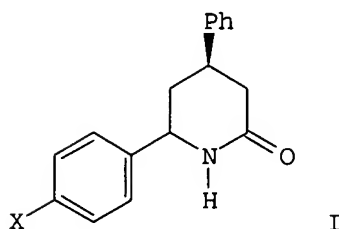
CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 120:244592

GI



AB A simple, versatile synthetic method for cis- and trans-4,6-diaryl-2-piperidinones I (X = H, Me, halo) was reported. Two-carbon 1,4-addition to variously substituted chalcones and subsequent 2-step reductive amination, and cyclization via oxime intermediates results in formation of cis- and trans-I. The configuration and conformation of cis- and trans-I were assigned from ¹H NMR spectra data which indicate that both cis- and trans-I isomers are stabilized in half-chair conformations.

IT 154356-92-0P, 2-Piperidinone, 6-(4-bromophenyl)-4-phenyl-, trans-
 154356-93-1P, 2-Piperidinone, 6-(4-chlorophenyl)-4-phenyl-, cis-
 154356-94-2P, 2-Piperidinone, 6-(4-chlorophenyl)-4-phenyl-, trans-
 154356-95-3P, 2-Piperidinone, 6-(4-bromophenyl)-4-phenyl-, cis-

08/29/2005

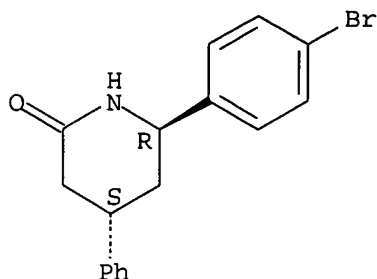
10768294.trn

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, from diaryl(oxo)pentanoate)

RN 154356-92-0 HCAPLUS

CN 2-Piperidinone, 6-(4-bromophenyl)-4-phenyl-, trans- (9CI) (CA INDEX NAME)

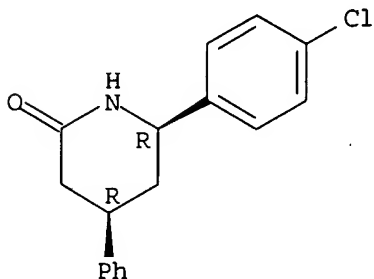
Relative stereochemistry.



RN 154356-93-1 HCAPLUS

CN 2-Piperidinone, 6-(4-chlorophenyl)-4-phenyl-, cis- (9CI) (CA INDEX NAME)

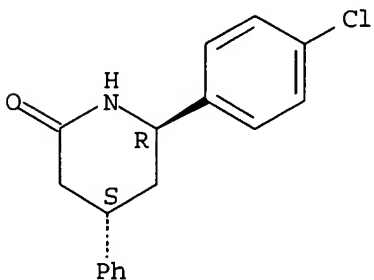
Relative stereochemistry.



RN 154356-94-2 HCAPLUS

CN 2-Piperidinone, 6-(4-chlorophenyl)-4-phenyl-, trans- (9CI) (CA INDEX NAME)

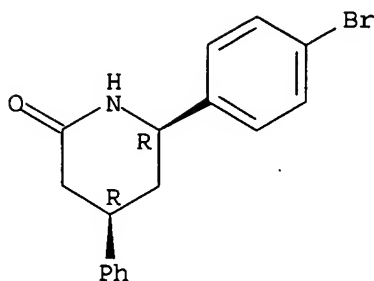
Relative stereochemistry.



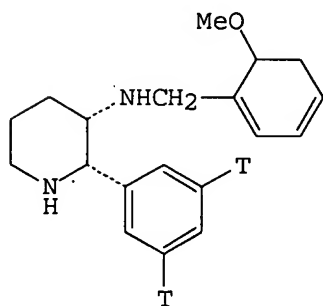
RN 154356-95-3 HCAPLUS

CN 2-Piperidinone, 6-(4-bromophenyl)-4-phenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

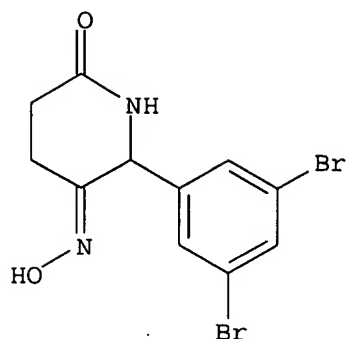


L14 ANSWER 10 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1994:77147 HCAPLUS
 DOCUMENT NUMBER: 120:77147
 TITLE: Synthesis, in vitro binding profile, and autoradiographic analysis of [3H]-cis-3-[(2-methoxybenzyl)amino]-2-phenylpiperidine, a highly potent and selective nonpeptide substance P receptor antagonist radioligand
 AUTHOR(S): Rosen, Terry; Seeger, Thomas F.; McLean, Stafford; Desai, Manoj C.; Guarino, Karen J.; Bryce, Dianne; Pratt, Kara; Heym, James; Chalabi, Philip M.; et al.
 CORPORATE SOURCE: Dep. Med., Pfizer Cent. Res., Groton, CT, 06340, USA
 SOURCE: Journal of Medicinal Chemistry (1993), 36(21), 3197-201
 CODEN: JMCMAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



I

AB The synthesis of the title compound I, a highly potent and selective NK1 receptor antagonist radioligand, is described. The in vitro binding pharmacol. and autoradiog. distribution of I in guinea pig brain following peripheral administration are also reported.
 IT 151296-75-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP. (Preparation); RACT (Reactant or reagent)
 (preparation and catalytic reduction of, stereochem. of amine from)
 RN 151296-75-2 HCAPLUS
 CN 2,5-Piperidinedione, 6-(3,5-dibromophenyl)-, 5-oxime (9CI) (CA INDEX NAME)



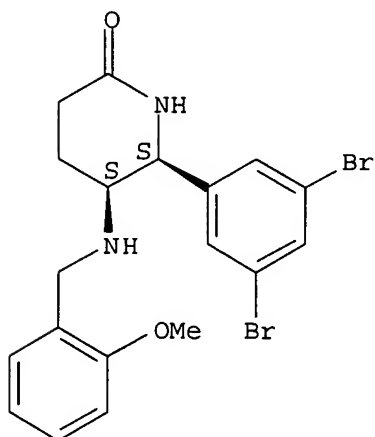
IT 151296-76-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydride reduction of)

RN 151296-76-3 HCAPLUS

CN 2-Piperidinone, 6-(3,5-dibromophenyl)-5-[[2-(hydroxymethyl)phenyl]amino]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



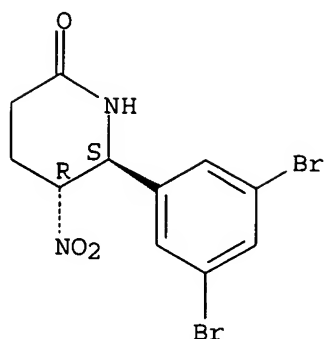
IT 151296-74-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of, oxopiperidinone from)

RN 151296-74-1 HCAPLUS

CN 2-Piperidinone, 6-(3,5-dibromophenyl)-5-nitro-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

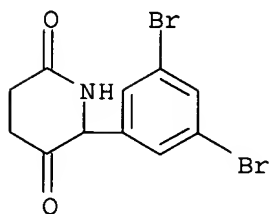


IT 151296-71-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and oximation of)

RN 151296-71-8 HCAPLUS

CN 2,5-Piperidinedione, 6-(3,5-dibromophenyl)- (9CI) (CA INDEX NAME)



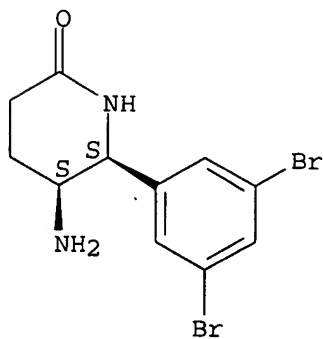
IT 151296-72-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and reductive alkylation of, with methoxybenzaldehyde)

RN 151296-72-9 HCAPLUS

CN 2-Piperidinone, 5-amino-6-(3,5-dibromophenyl)-, cis- (9CI) (CA INDEX
NAME)

Relative stereochemistry.



08/29/2005 10768294.trn

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DICTIONARY FILE UPDATES: 28 AUG 2005 HIGHEST RN 861926-07-0

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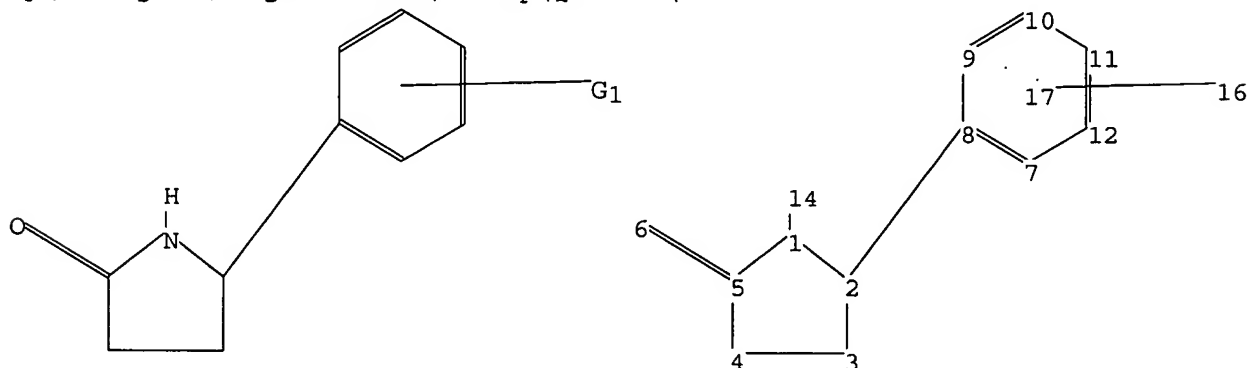
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10768294b.str



08/29/2005 10768294.trn

chain nodes :
6 14 16
ring nodes :
1 2 3 4 5 7 8 9 10 11 12
chain bonds :
1-14 2-8 5-6
ring bonds :
1-2 1-5 2-3 3-4 4-5 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
1-2 1-5 5-6
exact bonds :
1-14 2-3 2-8 3-4 4-5
normalized bonds :
7-8 7-12 8-9 9-10 10-11 11-12
isolated ring systems :
containing 1 : 7 :

G1:X,CN

Match level :

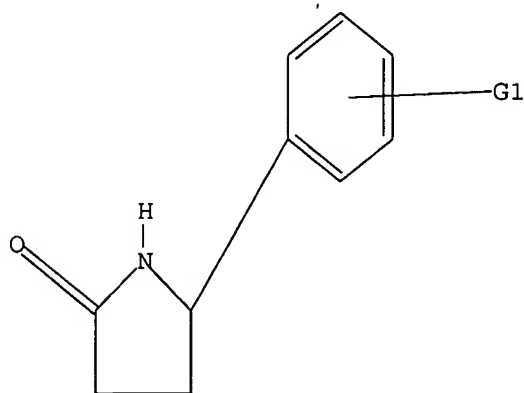
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 16:CLASS 17:CLASS

L17 STRUCTURE UPLOADED

=> d 117

L17 HAS NO ANSWERS

L17 STR



G1 X,CN

Structure attributes must be viewed using STN Express query preparation.

=> s 117

SAMPLE SEARCH INITIATED 16:31:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4416 TO ITERATE

08/29/2005 10768294.trn

45.3% PROCESSED 2000 ITERATIONS 3 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 84335 TO 92305
PROJECTED ANSWERS: 3 TO 286

L18 3 SEA SSS SAM L17

=> s l17 sss full
FULL SEARCH INITIATED 16:31:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 86931 TO ITERATE

100.0% PROCESSED 86931 ITERATIONS 76 ANSWERS
SEARCH TIME: 00.00.03

L19 76 SEA SSS FUL L17

=> FILE HCAPLUS
COST IN U.S. DOLLARS SINCE FILE TOTAL
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FILE LAST UPDATED: 28 Aug 2005 (20050828/ED)

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=> s l19
L20 ~~27 L19~~

=> s l20 and py<=1996
17466452 PY<=1996
L21 9 L20 AND PY<=1996

10768294.trn

Page 87

16:33

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61855 PESTICIDES
L22 6 L20 AND PESTICIDES

=> s 121 and pesticides
61855 PESTICIDES
L23 0 L21 AND PESTICIDES

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L21 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:713374 HCAPLUS

DOCUMENT NUMBER: 123:339607

TITLE: Manganese(III)-mediated oxidative radical cyclization.
2. Reaction of 1,1,ω,ω-tetraaryl-
substituted terminal alkadienes with malonamide or
acetoacetamide

AUTHOR(S): Nishino, Hiroshi; Hashimoto, Hideaki; Korp, James D.;
Kurosawa, Kazu

CORPORATE SOURCE: Dep. Chemistry, Kumamoto Univ., Kumamoto, 860, Japan

SOURCE: Bulletin of the Chemical Society of Japan (

1995), 68(7), 1999-2009

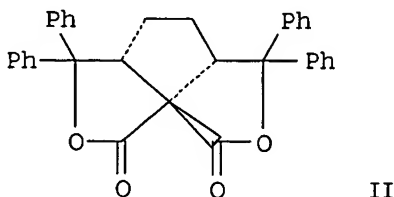
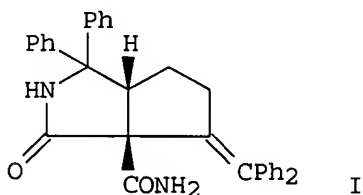
CODEN: BCSJA8; ISSN: 0009-2673

PUBLISHER: Nippon Kagakkai

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



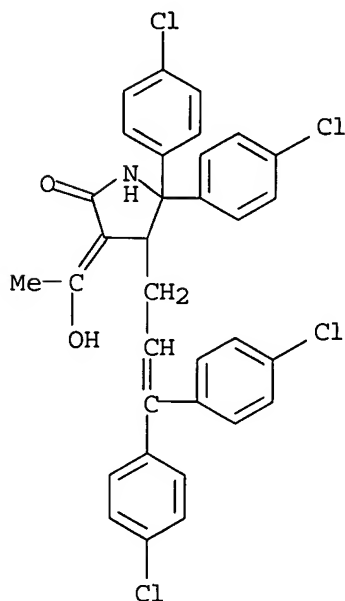
AB The oxidation of 1,1,6,6-tetraaryl-1,5-hexadienes with manganese(III) acetate in the presence of malonamide gave two types of 5-exo cyclization products, 1-carbamoyl-8-(diarylmethylene)-3-azabicyclo[3.3.0]octan-2-ones, e.g., I, and 3,10-dioxatricyclo[6.3.0.0^{1,5}]undecane-2,11-diones, e.g., II, in good to moderate yields. Similar reactions of 1,1,5,5-tetraaryl-1,4-pentadienes or 1,1,7,7-tetraaryl-1,6-heptadienes with malonamide yielded only complex mixts., except for the formation of a small amount of 3,11-dioxatricyclo[7.3.0.0^{1,5}]dodecane-2,12-dione. On the other hand, 1,1,5,5-tetraaryl-1,4-pentadienes reacted with acetoacetamide in the presence of manganese(III) acetate to afford 3-carbamoyl-2-methyl-4-(2-propenyl)-4,5-dihydrofurans and 1,4-pentadienes substituted at the 3-position with acetoacetamide. A similar reaction of 1,1,6,6-tetraaryl-1,5-hexadienes with acetoacetamide gave 8-[acetoxy(diaryl)methyl]-3-oxabicyclo[3.3.0]octan-2-ones, 1-acetyl-8-(diarylmethylene)-3-azabicyclo[3.3.0]octan-2-ones, and 4-(3-butenyl)-3-carbamoyl-2-methyl-4,5-dihydrofurans. The selectivity of the inter- and intramol. cyclizations involving the carboxamide moiety of malonamide or acetoacetamide is discussed.

IT 170304-24-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 170304-24-2 HCAPLUS

CN 2-Pyrrolidinone, 4-[3,3-bis(4-chlorophenyl)-2-propenyl]-5,5-bis(4-chlorophenyl)-3-(1-hydroxyethylidene)- (9CI) (CA INDEX NAME)



L21 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:438294 HCAPLUS

DOCUMENT NUMBER: 101:38294

TITLE: A liquid chromatographic method for resolving chiral lactams as their diastereomeric ureide derivatives

AUTHOR(S): Pirkle, William H.; Robertson, Michael R.; Hyun, Myung Ho

CORPORATE SOURCE: Sch. Chem. Sci., Univ. Illinois, Urbana, IL, 61801, USA

SOURCE: Journal of Organic Chemistry (1984), 49(13), 2433-7

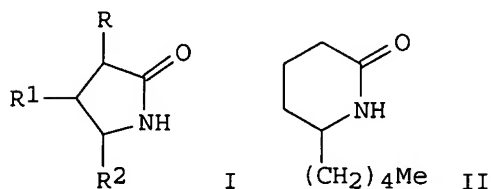
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 101:38294

GI



AB Racemic lactams I (R = R1 = H, R2 = Me, Ph, hexyl, 4-F-C6H4, 4-MeC6H4; R = R2 = H, R1 = Ph; R1 = R2 = H, R = hexyl, Ph) and II reacted with chiral isocyanates (R)-(1-C10H7)CHMeNCO or (S)-PhCHMeNCO to give diastereomeric ureides that were readily separated by chromatog. on silica. The elution order and sense of NMR nonequivalence of each pair of diastereomeric ureides was related to relative (and hence absolute) configuration of the lactam enantiomers, which were readily recovered from the separated ureides. The enantiomeric purity and absolute configuration of these lactams was also determined by NMR using (S)-2,2,2-trifluoro-1-(9-anthryl)ethanol as chiral solvating agent.

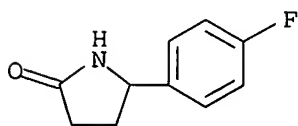
IT 90432-58-9

RL: PROC (Process)

(resolution of, by chromatog. of diastereomeric ureides)

RN 90432-58-9 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



L21 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:603736 HCAPLUS

DOCUMENT NUMBER: 95:203736

TITLE: Benzenesulfonamide derivatives

INVENTOR(S): Lang, Hans Jochen; Muschaweck, Roman; Hropot, Max

PATENT ASSIGNEE(S): Hoechst A.-G., Hung.

SOURCE: Hung. Teljes, 52 pp.

CODEN: HUXXBU

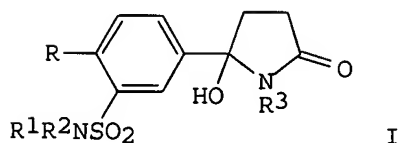
DOCUMENT TYPE: Patent

LANGUAGE: Hungarian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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HU 19761	O	19810428	HU 1978-HO2095	19780817 <--
HU 177456	P	19811028		
PRIORITY APPLN. INFO.:			HU 1978-HO2095	19780817
GI				



AB Diuretic and saluretic benzenesulfonamides I and 4,3-R(R1R2NSO2)C6H3COCH2CH2CONHR3 (II) (R = H, Me, CF3, halo; R1 = H, alkyl; R2 = H, C1-10 alkyl, alkoxy or dialkoxyalkyl, alkenyl, C3-12 cycloalkyl, alkylcycloalkyl, optionally substituted Ph, aralkyl; R1R2 = (CH2)4-5, R3 =

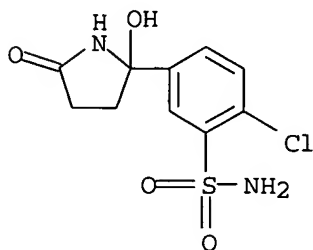
H, alkyl, methoxyalkyl, alkenyl, cycloalkyl, PhCH₂) were prepared in various ways. Thus, 4,3-Cl(H₂NSO₂)C₆H₃COCH₂CH₂CO₂H in THF was stirred with Et₃N and ClCO₂Me 5-10 min at 0° and treated with aqueous MeNH₂ to give I and II (R = Cl, R₁ = R₂ = H, R₃ = Me).

IT 70324-85-5P 70325-15-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

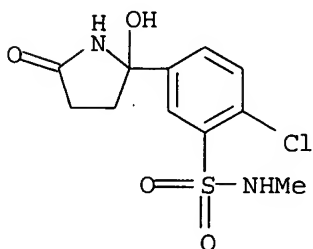
RN 70324-85-5 HCAPLUS

CN Benzenesulfonamide, 2-chloro-5-(2-hydroxy-5-oxo-2-pyrrolidinyl)- (9CI)
(CA INDEX NAME)



RN 70325-15-4 HCAPLUS

CN Benzenesulfonamide, 2-chloro-5-(2-hydroxy-5-oxo-2-pyrrolidinyl)-N-methyl- (9CI) (CA INDEX NAME)



L21 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:439311 HCAPLUS

DOCUMENT NUMBER: 91:39311

TITLE: Benzenesulfonamide derivatives

INVENTOR(S): Lang, Hans Jochen; Muschaweck, Roman; Hropot, Max

PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 75 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2737195	A1	19790301	DE 1977-2737195	19770818 <--
EP 1051	A2	19790321	EP 1978-100621	19780807 <--
EP 1051	B1	19810211		

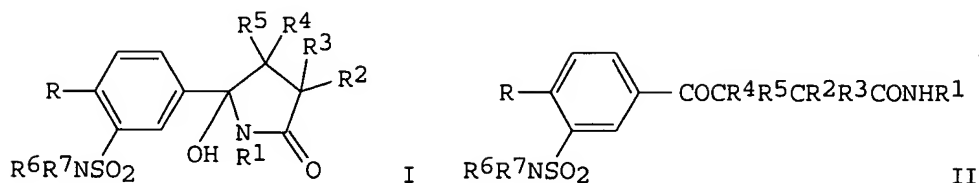
R: BE, CH, DE, FR, GB, NL, SE

ES 472528	A1	19791001	ES 1978-472528	19780811 <--
FI 7802500	A	19790219	FI 1978-2500	19780816 <--
US 4235918	A	19801125	US 1978-934063	19780816 <--
IL 55369	A1	19840531	IL 1978-55369	19780816 <--
DK 7803635	A	19790219	DK 1978-3635	19780817 <--
ZA 7804689	A	19790829	ZA 1978-4689	19780817 <--
AU 7839007	A1	19800221	AU 1978-39007	19780817 <--
AU 519998	B2	19820107		
CA 1117951	A1	19820209	CA 1978-309538	19780817 <--
AT 7805985	A	19821015	AT 1978-5985	19780817 <--
AT 371109	B	19830610		
AT 8105411	A	19830915	AT 1981-5411	19811217 <--
AT 374454	B	19840425		
AT 8105412	A	19830915	AT 1981-5412	19811217 <--
AT 374455	B	19840425		
AT 8105413	A	19830915	AT 1981-5413	19811217 <--
AT 374456	B	19840425		
AT 8105414	A	19830915	AT 1981-5414	19811217 <--
AT 374457	B	19840425		

PRIORITY APPLN. INFO.:

DE 1977-2737195	19770818
AT 1978-5985	A 19780817

GI



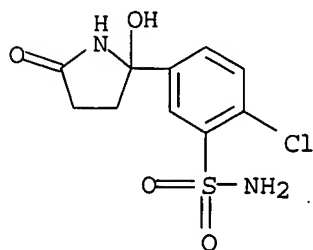
AB Tautomeric benzenesulfonamides I and II (R = H, halogen, CF₃, Me; R₁ = H, alkyl, alkenyl, methoxyalkyl, cycloalkyl, CH₂Ph; R₂-R₆ = H, alkyl; R₇ = H, alkyl, alkenyl, cycloalkyl, cycloalkylalkyl, phenylalkyl, optionally substituted by Me, OMe, Cl) were prepared for use as diuretics (no data). Thus, 4,3-Cl(H₂NSO₂)C₆H₃COCH₂CH₂CO₂H was treated with MeNH₂ in the presence of ClCO₂Et to give I and II (R = Cl, R₁ = Me, R₂-R₇ = H).

IT 70324-85-5P 70325-15-4P

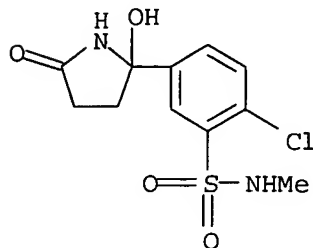
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 70324-85-5 HCAPLUS

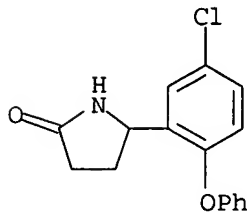
CN Benzenesulfonamide, 2-chloro-5-(2-hydroxy-5-oxo-2-pyrrolidinyl)- (9CI)
(CA INDEX NAME)



RN 70325-15-4 HCAPLUS
 CN Benzenesulfonamide, 2-chloro-5-(2-hydroxy-5-oxo-2-pyrrolidinyl)-N-methyl-
 (9CI) (CA INDEX NAME)



L21 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1975:57661 HCAPLUS
 DOCUMENT NUMBER: 82:57661
 TITLE: Condensed heterotricycles. 10,11-Ring-annealed
 dibenz[b,f][1,4]oxazepines
 AUTHOR(S): Nagarajan, K.; Shah, R. K.
 CORPORATE SOURCE: Res. Cent., CIBA, Bombay, India
 SOURCE: Indian Journal of Chemistry (1974), 12(3),
 263-9
 CODEN: IJOCAP; ISSN: 0019-5103
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 82:57661
 GI For diagram(s), see printed CA Issue.
 AB Imino chlorides I (R = H, Cl, NO₂, R₁ = H, OMe, R₂ = H, Cl) are converted
 into γ -hydroxypropylamines and then by treatment with POCl₃ and
 alkali into II. Mercaptotriazolodibenzoxazepines,
 triazolodibenzoxazepines, and tetrazolodibenzoxazepines were similarly
 prepared, but the pyrrolidone III could not be cyclized to the
 pyrrolodibenzoxazepine. During the formation of I (R = NO₂, R₁ = R₂ = H),
 benzoxazole (IV) is obtained. In the reactions of I (R = NO₂, R₁ = R₂ =
 H) with amines, similar benzoxazoles are obtained as byproducts.
 IT **54585-00-1P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 54585-00-1 HCAPLUS
 CN 2-Pyrrolidinone, 5-(5-chloro-2-phenoxyphenyl)- (9CI) (CA INDEX NAME)

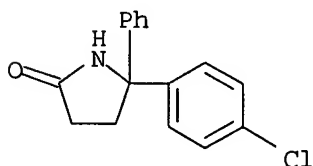


L21 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

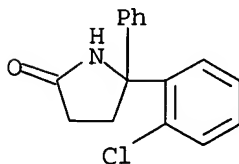
ACCESSION NUMBER: 1974:425541 HCAPLUS
 DOCUMENT NUMBER: 81:25541
 TITLE: 5,5-Diphenyl-2-pyrrolidinone compounds
 INVENTOR(S): Loev, Bernard
 PATENT ASSIGNEE(S): Smithkline Corp.
 SOURCE: U.S., 4 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3804854	A	19740416	US 1971-189333	19711014 <--
PRIORITY APPLN. INFO.:			US 1971-189333	A 19711014

GI For diagram(s), see printed CA Issue.
 AB The pyrrolidinones I (R = H, OH, OMe; R1 = H, p-Cl, o-Cl) were prepared. Thus, Ph2C:CHCH2CO2H was treated with SOCl2 and NH3 to give Ph2C:CHCH2CONH2 which was cyclized with polyphosphoric acid to give I (R = R1 = H). At 1-5 mg/kg I were coronary vasodilators in dogs.
 IT **52999-70-9P 52999-72-1P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 52999-70-9 HCAPLUS
 CN 2-Pyrrolidinone, 5-(4-chlorophenyl)-5-phenyl- (9CI) (CA INDEX NAME)



RN 52999-72-1 HCAPLUS
 CN 2-Pyrrolidinone, 5-(2-chlorophenyl)-5-phenyl- (9CI) (CA INDEX NAME)



L21 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1973:442113 HCAPLUS
 DOCUMENT NUMBER: 79:42113
 TITLE: Hydrolysis of some γ -cyano- γ -arylpimelonitriles
 AUTHOR(S): Fateen, A. K.; Abdel Rahman, S. M.; Kaddah, A. M.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Indian Journal of Chemistry (1973), 11(3), 225-8
 CODEN: IJOCAP; ISSN: 0019-5103

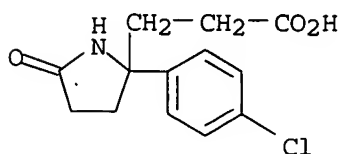
DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Hydrolysis of 4-RC₆H₄C(CH₂CH₂CN)₂CN (I, R = Cl, MeO, NO₂) with dilute HCl gave II, which were converted to amides via the acid chlorides. Cleavage of the piperidine ring in II was effected with 2N NaOH. I was completely hydrolyzed to the tricarboxylic acid with dilute H₂SO₄; hydrolysis with aqueous KOH gave the arylcarboxypimelamide. Treatment of I (r = Cl) with NaOEt gave III.

IT 42307-97-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 42307-97-1 HCAPLUS

CN 2-Pyrrolidinepropanoic acid, 2-(4-chlorophenyl)-5-oxo- (9CI) (CA INDEX NAME)



L21 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1968:496456 HCAPLUS

DOCUMENT NUMBER: 69:96456

TITLE: 4-Alkoxy-5-phenyl-3-pyrrolin-2-ones

INVENTOR(S): Hofmann, Corris M.; Safir, Sidney R.

PATENT ASSIGNEE(S): American Cyanamid Co.

SOURCE: U.S., 6 pp.
 CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3401176	A	19680910	US 1965-475250	19650727 <--
PRIORITY APPLN. INFO.:			US 1965-475250	A 19650727

GI For diagram(s), see printed CA Issue.

AB 2-Amino-2-phenylalkanecarboxamides are treated with AcCl or α -alkylacetoacetic esters, and the resulting 2-acetamido-2-phenylalkanecarboxamides treated with polyphosphoric acid or H₂SO₄ and an alc. to give the corresponding 2-acetamido-2-phenylalkanoic esters. The esters are cyclized and the resulting 5-phenylpyrrolidine-2,4-diones are alkylated to give the title compds. (I). Thus, 19.6 g. AcCl was slowly added to a mixture of 41 g. 2-amino-2-phenylpropionamide, 25 g. Et₃N, and 1250 ml. acetone, and the mixture stirred 3 hrs. and worked up to yield 33 g. 2-acetamido-2-phenylpropionamide (II), m. 188-9° (EtOH). Similarly were prepared the following RR1CPhCONH₂ (R, R1, and m.p. given): Et, NHAc, 175.5-76°; Pr, NHAc, 156-7°; Me, NHCOCH₂Ac, 152-5°; Me, NHCOCH₂COEt, 139-40°; and Et, NHCOCH₂Ac, 165-6°. A mixture of 30 g. II and 300 g. polyphosphoric acid was warmed (steam bath) 1 hr. and worked up to yield 27 g. Me 2-acetamido-2-phenylpropionate (III), m. 131-2°. Similarly were prepared the following RR1CPhCO₂Me (R, R1, and m.p. given): Et, NHAc, 152.5-3.5°; Pr, NHAc, 107-8°; Me, NHCOCH₂Ac, 123-5°;

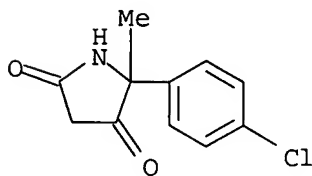
Me, $\text{NHCOCH}_2\text{COEt}$, 100-2°; Et, NHCOCH_2Ac , 95-7°; and H, NHCOCH_2Ac , 85-5.5°. A solution of 18.6 g. III in 125 ml. toluene was refluxed with 9.2 g. 54.7% NaH 4 hrs. and worked up to yield 10 g. 5-methyl-5-phenylpyrrolidine-2,4-dione (IV) (R = Me, R1 = H) m. 137-8° (EtOAc). Similarly were prepared the following IV (R, R1, and m.p. given): Et, H, 149-50°; Pr, H, 120-1°; Me, Me, 185-7°; Me, Et, 95-9° (decomposition); Et, Me, 179-81° (decomposition); H, Ac, 126-8°; and H, H, 126-7.5°. A solution of 1.9 g. IV, 1.9 g. Me_2SO_4 , and 10 ml. N NaOMe was refluxed 4 hrs. and worked up to yield 0.9 g. 4-methoxy-5-methyl-5-phenyl-3-pyrrolin-2-one (I) (R = R2 = Me, R1 = H), m. 178-82° (MeOH). Similarly were prepared the following I (R, R1, R2, and m.p. given): Me, H, Et, 156-7°; Me, H, Pr, 112.5-13.5°; Et, H, Me, 154-5°; Et, H, Et, 153-5°; Et, H, Pr, 144-5.5°; Et, H, Bu, 112-13°; Et, H, $\text{Me}_2\text{N}(\text{CH}_2)_2$, 86-8°; Pr, H, Et, 154.5-5.5°; Me, Me, Me, 180-1°; Me, Me, Et, 142-3.5°; Me, Et, Me, 174-9°; Et, Me, Et, 168-8.5°; and H, H, Me, 180-5°.

IT 19860-41-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 19860-41-4 HCAPLUS

CN 2,4-Pyrrolidinedione, 5-(p-chlorophenyl)-5-methyl- (8CI) (CA INDEX NAME)



L21 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1940:33558 HCAPLUS

DOCUMENT NUMBER: 34:33558

ORIGINAL REFERENCE NO.: 34:5078e-i,5079a-f

TITLE: Some reactions of $\delta\beta$ - γ -lactones

AUTHOR(S): Walton, E.

SOURCE: Journal of the Chemical Society, Abstracts (1940) 438-42

CODEN: JCSAAZ; ISSN: 0590-9791

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

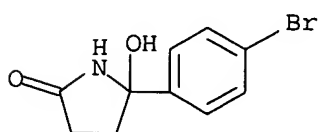
AB Unsatd. lactones of the type $\text{R}'\text{C}:\text{CH}:\text{CH}_2:\text{CO}:\text{O}$ (I) react with NH_3 and monosubstituted amines to give pyrrolidones, $\text{R}'(\text{OH})\text{C}:\text{CH}_2:\text{CH}_2:\text{CO}:\text{NR}$ (II), the structure of which has been confirmed in several cases by synthesis from the corresponding succinimide and Grignard compound. The N-alkyl-substituted pyrrolidones are all amphoteric, readily decomposed by acid into the corresponding γ -keto acid and stable in alkaline solution. γ -Methyl- $\delta\beta$ -crotonolactone (I, $\text{R}' = \text{Me}$) and a slight excess of PhNH_2 , heated 3 min. at 180° and carefully acidified with dilute HCl, give 2-hydroxy-1-phenyl-2-methyl-5-pyrrolidone (III) (II, $\text{R} = \text{Ph}$, $\text{R}' = \text{Me}$), m. 101°; it is readily soluble in cold 2 N NaOH and does not liberate PhNH_2 after boiling 3 min.; the 6 N HCl solution liberates PhNH_2 on warming. Addition of Br in AcOH gives the 1-p-bromophenyl derivative, m. 159-61° (decomposition), also prepared from I ($\text{R}' = \text{Me}$) and p- $\text{BrC}_6\text{H}_4\text{NH}_2$. III was also prepared from succinanil and MeMgI after refluxing 4-5 hrs.

γ -Phenyl- $\delta\beta$ -crotonolactone (IV) and concentrated NH_4OH , warmed 0.5 min., give 2-hydroxy-2-phenyl-5-pyrrolidone (V) (II, R = H, R' = Ph), m. 123-5° (decomposition); dilute Na_2CO_3 gives a purple solution; boiling with 2 N NaOH gives a tar and NH_3 ; warming with concentrated HCl for 3 min. gives $\text{BzCH}_2\text{CH}_2\text{CO}_2\text{H}$ and NH_3 ; it is soluble in 6 N HCl but not in alkali and is recovered unchanged after treatment with Ac_2O , Me_2SO_4 in alkali and NaNO_2 in AcOH . IV and 33% aqueous MeNH_2 react vigorously; after passing through green and violet stages, the solution becomes yellow on warming for 20 sec., giving the 1-Me derivative of V, m. 130-5° (decomposition); it dissolves readily in 2 N NaOH , from which it is recovered unchanged; it is also soluble in 6 N HCl but decomps. on warming; alc. NaOH yields an unstable Na derivative, hydrolyzed by H_2O to the original compound and giving with Me_2SO_4 a yellow unsatd. compound. IV and 33% aqueous EtNH_2 on mixing show color changes from green through violet to pink and give a nearly quant. yield of 2-hydroxy-2-phenyl-1-ethyl-5-pyrrolidone, (II, R = Et, R' = Ph), m. 85-7°; its behavior toward NaOH and HCl is similar to that of the Me derivative; PrNH_2 gives the 1-Pr analog, prisms from H_2O or leaflets from C_6H_6 -petr. ether, m. 85-6°; it is only slightly soluble in NaOH but dissolves readily in 10 N HCl , which decomps. it on warming. IV and PhNH_2 , boiled 2 min., give 2-hydroxy-1,2-diphenyl-5-pyrrolidone (II, R = R' = Ph), m. 148-9°; it is insol. and quite stable in HCl and in NaOH but is slowly decomposed by hot aqueous alc. HCl ; Br in AcOH gives the 1-p-bromophenyl derivative, m. 166°, also prepared from IV and p- $\text{BrC}_6\text{H}_4\text{NH}_2$; hot aqueous alc. HCl gives $\text{BzCH}_2\text{CH}_2\text{CO}_2\text{H}$ and p- $\text{BrC}_6\text{H}_4\text{NH}_2$, p- $\text{MeC}_6\text{H}_4\text{COCH}_2\text{CH}_2\text{CO}_2\text{H}$ (6.4 g.) and 4.2 g. Ac_2O , warmed at 100° for 0.5 hr., give 4 g. of γ -p-tolyl- $\delta\beta$ -crotonolactone (V) (I, R' = p- MeC_6H_4), salmon-pink, m. 111°; heating V with excess concentrated NH_4OH at 100° for 20 min. gives 2-hydroxy-2-p-tolyl-5-pyrrolidone (VI), cream, m. 165-7° (decomposition); Limpricht and Doll (Ann. 312, 111(1900)) formulated this as an open-chain amide; it is decomposed by HCl or NaOH . V and 33% aqueous MeNH_2 give the 1-Me derivative of VI, hexagonal leaflets with 0.5 mol. H_2O (rapid cooling of concentrated solution), m. 92-3°, or anhydrous prisms (slow cooling), m. 132-40°; it is stable in 2 N NaOH but is decomposed by HCl ; this also results from succinomethylimide (VII) and p- $\text{MeC}_6\text{H}_4\text{MgCl}$, p- $\text{BrC}_6\text{H}_4\text{COCH}_2\text{CH}_2\text{CO}_2\text{H}$ and Ac_2O at 100° for 1 hr. give 60% of γ -p-bromophenyl- β -crotonolactone (VIII), m. 115-30°; warming with excess NH_4OH for 2 min. gives 2-hydroxy-2-p-bromophenyl-5-pyrrolidone (IX), yellow, m. 169-71° (decomposition); VIII and 33% aqueous MeNH_2 , warmed 1 min., give the 1-Me derivative of IX, m. 145-8° (decomposition); this also results from VII and p- $\text{BrC}_6\text{H}_4\text{MgBr}$. p- $\text{MeOC}_6\text{H}_4\text{CH}_2\text{CH}_2\text{CO}_2\text{H}$ and Ac_2O , warmed at 100° for 10 min., give γ -p-methoxyphenyl- $\gamma\beta$ -crotonolactone, pink, m. 110-11°; warming with concentrated NH_4OH at 100° for about 3 min. gives 2-hydroxy-2-p-methoxyphenyl-5-pyrrolidone, yellow, m. 133-5° (some decomposition); 33% aqueous MeNH_2 gives the 1-Me derivative, m. 88-92°.

IT 861036-01-3, 2-Pyrrolidone, 5-(p-bromophenyl)-5-hydroxy-
(preparation of)

RN 861036-01-3 HCAPLUS

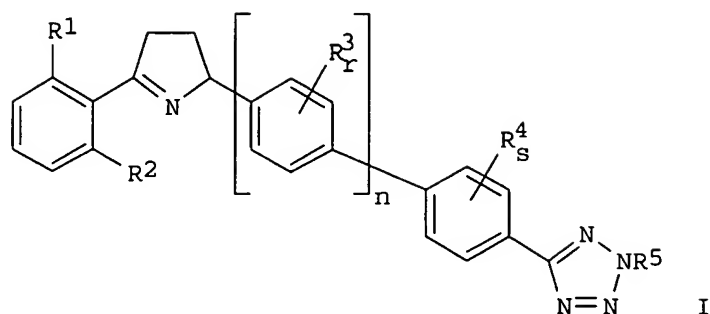
CN 2-Pyrrolidone, 5-(p-bromophenyl)-5-hydroxy- (4CI) (CA INDEX NAME)



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L22 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:733857 HCAPLUS
 DOCUMENT NUMBER: 137:263039
 TITLE: Preparation of pyrrolyl(bi)phenyl-2H-tetrazoles as pesticides
 INVENTOR(S): Plant, Andrew; Maurer, Fritz; Marhold, Albrecht; Erdelen, Christoph; Turberg, Andreas; Hansen, Olaf
 PATENT ASSIGNEE(S): Bayer AG, Germany
 SOURCE: Ger. Offen., 36 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10113965	A1	20020926	DE 2001-10113965	20010322
CA 2441334	AA	20021003	CA 2002-2441334	20020312
WO 2002076978	A1	20021003	WO 2002-EP2684	20020312
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1379521	A1	20040114	EP 2002-722207	20020312
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2002008295	A	20040413	BR 2002-8295	20020312
CN 1509284	A	20040630	CN 2002-809773	20020312
JP 2004529131	T2	20040924	JP 2002-576236	20020312
US 2004152904	A1	20040805	US 2003-472270	20031212
PRIORITY APPLN. INFO.:			DE 2001-10113965	A 20010322
			WO 2002-EP2684	W 20020312
OTHER SOURCE(S):	MARPAT 137:263039			
GI				



AB Title compds. [I; R1 = halo, Me; R2 = H, halo; R3, R4 = halo, (substituted) alkyl, alkoxy; R5 = H, alkylcarbonyl, (substituted) alkyl, alkylsulfonyl, cycloalkyl; n = 0, 1; r, s = 0-2], were prepared. Thus, a mixture of 2-(4-bromophenyl)-5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrole, 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bi-1,3,2-dioxaborolan, KOAc, and PdCl2dppf was heated with DMF under Ar-atmospheric followed by cooling and addition

of 2-ethyl-5-(4-bromophenyl)-2H-tetrazole (preparation given) to give, after 16 h stirring at 80°, 62% 5-(4'-[5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrol-2-yl]-1,1'-biphenyl-4-yl)-2-ethyl-2H-tetrazole. The latter was said to kill of *Heliothis virescens*-caterpillars on Glycine max with a good efficiency.

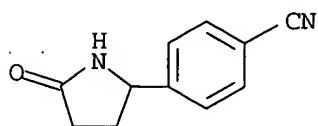
IT 339087-31-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrrolyl(bi)phenyl-2H-tetrazoles as **pesticides**)

RN 339087-31-9 HCAPLUS

CN Benzonitrile, 4-(5-oxo-2-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L22 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:240723 HCAPLUS

DOCUMENT NUMBER: 136:279329

TITLE: Preparation of optically active 2,5-diaryl-3,4-dihydropyrroles as **pesticides**

INVENTOR(S): Plant, Andrew; Geller, Thomas; Gallenkamp, Bernd; Grosser, Rolf; Marhold, Albrecht; Erdelen, Christoph; Turberg, Andreas; Hansen, Olaf

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 129 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

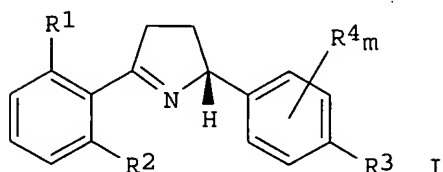
APPLICATION NO.

DATE

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WO 2002024643      A1      20020328      WO 2001-EP10424      20010910
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    GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
    LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
    PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
    US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW:  GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
    DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
    BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
DE 10047110      A1      20020418      DE 2000-10047110      20000922
AU 2002013897      A5      20020402      AU 2002-13897      20010910
CA 2422958      AA      20030319      CA 2001-2422958      20010910
BR 2001014062      A      20030701      BR 2001-14062      20010910
EP 1322607      A1      20030702      EP 2001-982267      20010910
R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
    IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2004509166      T2      20040325      JP 2002-529056      20010910
NZ 524813      A      20040924      NZ 2001-524813      20010910
EG 23084      A      20040331      EG 2001-997      20010918
US 2004059129      A1      20040325      US 2003-380433      20030728
PRIORITY APPLN. INFO.:      DE 2000-10047110      A      20000922
                                WO 2001-EP10424      W      20010910
OTHER SOURCE(S):      MARPAT 136:279329
GI

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AB Title compds. [I; * = C with (R) configuration; m = 0-4; R1 = halo, Me; R2 = H, halo; R3 = H, halo, OH, (halo)alkyl, (halo)alkenyl, alkynyl, alkoxy, S(O)OR6, etc.; R4 = halo, (halo)alkyl, (halo)alkoxy, S(O)OR6; o = 0-2; R6 = H, (halo)alkyl], were prepared. Thus, (+/-)-5-(2,6-difluorophenyl)-2-[4'-(trifluoromethoxy)-1,1'-biphenyl-4-yl]-3,4-dihydro-2H-pyrrole in n-heptanol/isopropanol was fractionally chromatographed with silica gel Chiralcel OD by HPLC to give 87.3% (2R)-5-(2,6-difluorophenyl)-2-[4'-(trifluoromethoxy)-1,1'-biphenyl-4-yl]-3,4-dihydro-2H-pyrrole (ee = 99.5%). The latter at 8 ppm gave 100% kill of *Heliothis armigera* after 6 days.

IT 405522-18-1P

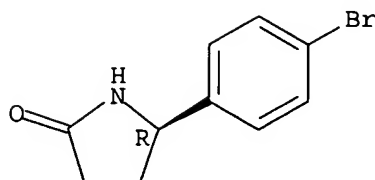
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of optically active diaryldihydropyrroles as pesticides)

RN 405522-18-1 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:260281 HCAPLUS

DOCUMENT NUMBER: 132:279107

TITLE: Preparation of 5-aryl-2-heteroaryl-3,4-dihydro-2H-pyrroles as pesticides.

INVENTOR(S): Plant, Andrew; Alig, Bernd; Graff, Alan; Kraatz, Udo; Kramer, Wolfgang; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 239 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

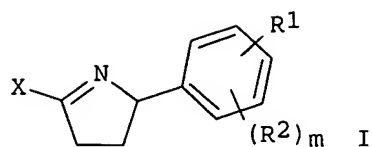
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021958	A1	20000420	WO 1999-EP7295	19991001
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19847076	A1	20000420	DE 1998-19847076	19981014
AU 9961988	A1	20000501	AU 1999-61988	19991001
AU 761113	B2	20030529		
EP 1121357	A1	20010808	EP 1999-948915	19991001
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9915544	A	20010814	BR 1999-15544	19991001
JP 2002527437	T2	20020827	JP 2000-575864	19991001
US 6599924	B1	20030729	US 2001-807136	20010405
PRIORITY APPLN. INFO.:			DE 1998-19847076	A 19981014
			WO 1999-EP7295	W 19991001

OTHER SOURCE(S): MARPAT 132:279107
GI



AB Title compds. [I; X = (substituted) 5-10 membered mono- or bicyclic heterocyclyl; R1 = halo, XA, BZD, YE; m = 0-4; R2 = H, halo, cyano, NO2, alkyl, alkoxy, haloalkyl, haloalkoxy, alkoxyalkoxy, SR3, SOR3, SO2R3; R3 = alkyl, haloalkyl; X = bond, O, S, CO, CO2, etc.; A = (substituted) Ph, naphthyl, tetrahydronaphthyl, 5-10 membered heterocyclyl; B = (substituted) p-phenylene; Z = O, S; D = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, (substituted) cycloalkyl, cycloalkenyl, phenylalkyl, etc.; ZD = (substituted) phenoxyalkyl; Y = bond, O, S, CO, CO2, alkylene, alkenylene, alkynylene, etc.; E = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, (substituted) cycloalkenyl, Ph, 5-6 membered heteroaryl], were prepared. Thus, furan in THF at -30° was treated with BuLi and then with a solution of N-tert-butoxycarbonyl-γ-(4'-trifluoromethoxybiphen-4-yl)-γ-butyrolactam (preparation given) in THF followed by 2 h stirring at -20° and stirring overnight at room temperature to give 86% BOC-protected aminoketone, which was stirred overnight with CF3CO2H to give 86% 2-(2-furyl)-5-(4'-trifluoromethoxybiphen-4-yl)-3,4-dihydro-2H-pyrrole. Tested I at 0.1% on bean plants gave ≥95% kill of organophosphate-resistant *Tetranychus urticae*.

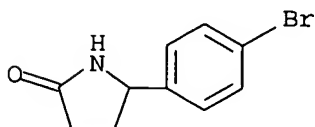
IT 207989-90-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 5-aryl-2-heteroaryl-3,4-dihydro-2H-pyrroles as pesticides)

RN 207989-90-0 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:753208 HCAPLUS

DOCUMENT NUMBER: 131:351232

TITLE: Preparation of 5-aryl-2-(2-chlorophenyl)-3,4-dihydro-2H-pyrroles as pesticides.

INVENTOR(S): Plant, Andrew; Graff, Alan; Kraatz, Udo; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: PCT Int. Appl., 159 pp.

CODEN: PIXXD2

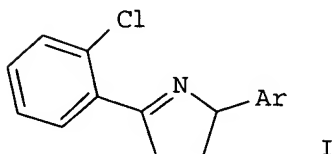
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9959968	A1	19991125	WO 1999-EP3063	19990505
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19822247	A1	19991125	DE 1998-19822247	19980518
CA 2332723	AA	19991125	CA 1999-2332723	19990505
AU 9941384	A1	19991206	AU 1999-41384	19990505
AU 747396	B2	20020516		
BR 9910539	A	20010116	BR 1999-10539	19990505
TR 200003389	T2	20010221	TR 2000-200003389	19990505
EP 1080072	A1	20010307	EP 1999-924878	19990505
EP 1080072	B1	20040804		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
JP 2002515483	T2	20020528	JP 2000-549587	19990505
AT 272622	E	20040815	AT 1999-924878	19990505
ES 2224666	T3	20050301	ES 1999-924878	19990505
US 6489490	B1	20021203	US 2000-700289	20001113
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OTHER SOURCE(S):		MARPAT 131:351232		
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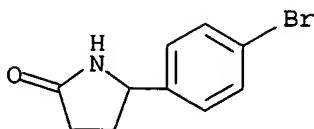
AB Title compds. (I; Ar = substituted Ph), were prepared Thus, 2-(2-chlorophenyl)-5-(4-bromophenyl)-3,4-dihydro-2H-pyrrole (preparation given) was stirred with 4-trifluoromethoxyphenylboronic acid, K₂CO₃, and Pd(PPh₃)₂Cl₂ in dimethoxyethane/H₂O to give 11.2% 2-(2-chlorophenyl)-5-(4-trifluoromethoxy-4,4'-biphenyl-1-yl)-3,4-dihydro-2H-pyrrole. The latter at 0.004% on soybeans gave 100% kill of *Heliothis armigera*.

IT 207989-90-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 5-aryl-2-(2-chlorophenyl)-3,4-dihydro-2H-pyrroles as pesticides)

RN 207989-90-0 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:753207 HCAPLUS

DOCUMENT NUMBER: 131:351231

TITLE: Preparation of 2-(2-methylphenyl)-5-aryl-3,4-dihydro-2H-pyrroles as pesticides.

INVENTOR(S): Plant, Andrew; Backhaus, Dirk; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: PCT Int. Appl., 146 pp.

CODEN: PIXXD2

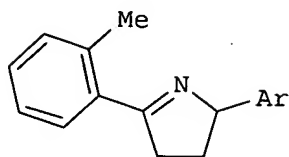
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9959967	A1	19991125	WO 1999-EP3062	19990505
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19822245	A1	19991125	DE 1998-19822245	19980518
CA 2332522	AA	19991125	CA 1999-2332522	19990505
AU 9940369	A1	19991206	AU 1999-40369	19990505
AU 742032	B2	20011213		
BR 9910540	A	20010130	BR 1999-10540	19990505
EP 1077938	A1	20010228	EP 1999-923526	19990505
EP 1077938	B1	20050413		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
TR 200003390	T2	20010321	TR 2000-200003390	19990505
JP 2002515482	T2	20020528	JP 2000-549586	19990505
AT 293099	E	20050415	AT 1999-923526	19990505
US 6632833	B1	20031014	US 2000-700288	20001113
PRIORITY APPLN. INFO.:			DE 1998-19822245	A 19980518
			WO 1999-EP3062	W 19990505
OTHER SOURCE(S):	MARPAT	131:351231		
GI				

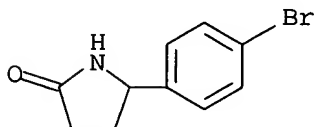


I

AB Title compds. [I; Ar = (substituted) Ph], were prepared Thus, 1-tert-butoxycarbonylamino-1-[4'-trifluoromethoxybiphenyl-4-yl]-3-[O-methylbenzoyl]propane (preparation given) in CH₂Cl₂ was treated with CF₃CO₂H to give 93.1% 2-(2-methylphenyl)-5-[4'-trifluoromethoxybiphen-4-yl]-3,4-dihydro-2H-pyrrole. The latter at 0.004% on cabbage leaves gave 100% kill of *Plutella xylostella* after 6 days.

IT 207989-90-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of 2-(2-methylphenyl)-5-aryl-3,4-dihydro-2H-pyrroles as pesticides)

RN 207989-90-0 HCAPLUS
 CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:352816 HCAPLUS

DOCUMENT NUMBER: 129:27884

TITLE: Preparation of aryl-substituted cyclic imines as pesticides.

INVENTOR(S): Plant, Andrew; Kleefeld, Gerd; Potter, Thorsten; Erdelen, Christoph; Mencke, Norbert; Turberg, Andreas; Wachendorff-Neumann, Ulrike

PATENT ASSIGNEE(S): Bayer A.-G., Germany; Plant, Andrew; Kleefeld, Gerd; Potter, Thorsten; Erdelen, Christoph; Mencke, Norbert; Turberg, Andreas; Wachendorff-Neumann, Ulrike

SOURCE: PCT Int. Appl., 128 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9822438	A1	19980528	WO 1997-EP6186	19971107
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,				

US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
 GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
 GN, ML, MR, NE, SN, TD, TG

DE 19648011	A1	19980528	DE 1996-19648011	19961120
AU 9853197	A1	19980610	AU 1998-53197	19971107
AU 737059	B2	20010809		
EP 942901	A1	19990922	EP 1997-950138	19971107
EP 942901	B1	20030305		

R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT

CN 1244860	A	20000216	CN 1997-181458	19971107
BR 9713520	A	20000321	BR 1997-13520	19971107
NZ 335798	A	20001027	NZ 1997-335798	19971107
JP 2001506592	T2	20010522	JP 1998-523151	19971107
EP 1306371	A1	20030502	EP 2003-371	19971107

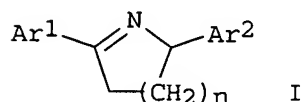
R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT

PT 942901	T	20030731	PT 1997-950138	19971107
ES 2190803	T3	20030816	ES 1997-950138	19971107
IL 129857	A1	20040219	IL 1997-129857	19971107
TW 572730	B	20040121	TW 1997-86117105	19971117
KR 2000053185	A	20000825	KR 1999-704146	19990510
US 6274613	B1	20010814	US 1999-297964	19990511
US 6399771	B1	20020604	US 2000-659041	20000909
US 2002151571	A1	20021017	US 2001-28648	20011219
US 6770595	B2	20040803		
US 2004186287	A1	20040923	US 2004-768294	20040130

PRIORITY APPLN. INFO.:

DE 1996-19648011	A	19961120
EP 1997-950138	A3	19971107
WO 1997-EP6186	W	19971107
US 1999-297964	A3	19990511
US 2000-659041	A3	20000909
US 2001-28648	A3	20011219

OTHER SOURCE(S): MARPAT 129:27884
 GI



AB Title compds. (I; Ar1, Ar2 = (substituted) Ph; n = 1, 2, 3), were prepared
 Thus, 1-tert-butoxycarbonylamino-3-(2,6-difluorobenzoyl)-1-phenylpropane
 (preparation given) was treated with CF3CO2H at 0° to room temperature to give
 83% 2-(2,6-difluorophenyl)-5-phenyl-3,4-dihydro-2H-pyrrole. The latter at
 0.1% gave 90% kill of Myzus persicae on cabbage leaves.

IT 207989-90-0P

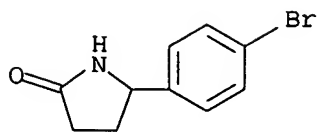
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of aryl-substituted cyclic imines as pesticides)

RN 207989-90-0 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)

08/29/2005 10768294.trn



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
79.00	711.12

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-10.95	-27.74

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